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Cohen, B. H.; Cohen, P. S. Discovering Boston. (DISC) August, 951–953.
Cohen, B. H.; Cohen, P. S. Discovering Dallas–Fort Worth. March, 271–273.
Cohen, P. S.; Cohen, B. H. Discovering Boston. (DISC) August, 951–953.
Cohen, P. S.; Cohen, B. H. Discovering Dallas–Fort Worth. March, 271–273.
Cohen, P. S.; Cohen, S. M. Wöhler's Synthesis of Urea. (LTE) April, 413.
Cohen, S. M.; Cohen, P. S. Wöhler's Synthesis of Urea. (LTE) April, 413.
Cohn, K.; Kaess, M.; Easter, J. Visual Basic and Excel in Chemical Modeling. (CBB) May, 642–643.
Cole, A. R. Reforming the General Chemistry Textbook. (LTE) January, 26–29.
Coleman, S. L.; Gotch, A. J. Spatial Perception Skills of Chemistry Students. (CER) February, 206–209.
Collard, D. M.; McKee, S. Polymer Chemistry in Science Museums: A Survey of Educational Resources. November, 1419–1423.
Copper, C. L. Capillary Electrophoresis: Part I. Theoretical and Experimental Background. (TICI) March, 343–347.
Copper, C. L.; Koubek, E. A Kinetics Experiment To Demonstrate the Role of a Catalyst in a Chemical Reaction: A Versatile Exercise for General or Physical Chemistry Students. January, 87–90.
Copper, C. L.; Whitaker, K. W. Capillary Electrophoresis: Part II. Applications. (TICI) March, 347–351.
Cornely, K. Use of Case Studies in an Undergraduate Biochemistry Course. (CIB) April, 475–478.
Cortel, A. Demonstrations on Paramagnetism with an Electronic Balance. (F&R) January, 61–63.
Cossy, J.; Bellosta, V. A Very Simple Method for Converting Haworth Representation to Zigzag Representation. October, 1307.
Cotton, S. A. Extended Wordsearches in Chemistry. April, 489–490.
Coughlin, D.; Scaccia, R. L.; Ball, D. W. A Microscale Synthesis of Mauve. (ML) June, 769–770.
Cousins, K. R.; Pierson, K. M. A Simplified Method for the Microscale Extraction of Pigments from Spinach. (ML) October, 1268–1269.
Coym, K. S.; Pandey, S.; McHale, M. E.; Acree, W. E. Bilinear Regression Analysis as a Means To Reduce Matrix Effects in Simultaneous Spectrophotometric Determination of Cr(III) and Co(II): A Quantitative Analysis Laboratory Experiment. July, 878–880.
Crippen, K. J.; Curtright, R. D. Modeling Nuclear Decay: A Point of Integration between Chemistry and Mathematics. (2AP) November, 1434–1436.
Crosby, G. A.; Crosby, J. L. Conducting a Teacher Professional Development Program in Chile. July, 811–813.
Crosby, G. A. Statement on Education. September, 1071.
Crosby, J. L.; Crosby, G. A. Conducting a Teacher Professional Development Program in Chile. July, 811–813.
Crouch, R. D.; Holden, M. S. The Pechmann Reaction. (ML) December, 1631.
Crouse, D. J.; Jackson, B. A. Experimentally Determining the Molar Mass of Carbon Dioxide Using a Mylar Balloon. (CET) August, 997–998.
Curnow, O. J. A Simple Qualitative Molecular-Orbital/Valence-Bond Description of the Bonding in Main Group "Hypervalent" Molecules. July, 910–915.
Curtright, R. D.; Crippen, K. J. Modeling Nuclear Decay: A Point of Integration between Chemistry and Mathematics. (2AP) November, 1434–1436.

D

Dahl, D. B.; Riley, J. T.; Green, T. K. Chromatographic Separation Techniques for Undergraduates. (NSF) October, 1209.
Dahl, D. B.; Valenzuela, F. A.; Green, T. K. Synthesis and Separation of a Diastereomeric Sulfonium Ion by Capillary Zone Electrophoresis. December, 1590–1592.
Daizadeh, I.; Sorkhabi, O.; Jackson, W. M. Cometary Spectroscopy for Advanced Undergraduates. (ACL) November, 1472–1476.
Daizadeh, I.; Sorkhabi, O.; Jackson, W. M. Extending the Diatomic FTIR Experiment: A Computational Exercise To Calculate Potential Energy Curves. February, 238–240.
Dale, J. Inadequacies of the S_N1 Mechanism. November, 1482–1485.
Dana, S. M.; Klein, L. C. Process Development in the Teaching Laboratory. (2AP) June, 745–746.
Daniel, C. The Periodic Table as as Fund-Raiser: A Project To Provide State-of-the-Art Equipment and Software to Oregon High School. June, 662.
Davenport, D. A. How Linus Pauling Finally Got the Priestley Medal of the American Chemical Society. October, 1211–1215.
David, C. W.; Bocarsly, J. R. Using Linux/MacroModel To Do Quantum Chemistry in the Physical Chemistry Lab. (TECH) May, 640.
de Almeida, P. P.; de Zea Bermudez, V.; Seita, J. F. How To Learn and Have Fun with Poly(Vinyl Alcohol) and White Glue. November, 1410–1418.
De La Sancha, N. U.; Pandey, S.; McHale, M. E.; Horton, A. M.; Padilla, S. A.; Trufant, A. L.; Vela, E.; Acree, W. E. Kinetics-Based Indirect Spectrophotometric Method for Simultaneous Determination of MnO^{4-} and $Cr_2O_7^{2-}$: A Modern Instrumental Analysis Laboratory Experiment. April, 450–452.
De Schryver, F. C.; van Stam, J.; Depaemelaere, S. Micellar Aggregation Numbers—A Fluorescence Study. January, 93–98.
de Vos, W.; Goedhart, M. J.; van Keulen, H.; Mulder, T. M.; Verdonk, A. H. Teaching Distillation Knowledge: A Video Film about Distillation Bridging a Gap Between Theory and Practice. March, 378–381.
de Zea Bermudez, V.; de Almeida, P. P.; Seita, J. F. How To Learn and Have Fun with Poly(Vinyl Alcohol) and White Glue. November, 1410–1418.
Deal, S. T.; Pope, S. R.; Tolleson, T. D.; Williams, R. J.; Underhill, R. D. Working with Enzymes—Where Is Lactose Digested? An Enzyme Assay for Nutritional Biochemistry Laboratories. June, 761.
Deck, J. C.; Singh, B. R. Etiquette in Departmental Seminars. July, 846–848.
Deckert, A. A.; Nestor, L. P.; DiLullo, D. An Example of a Guided-Inquiry, Collaborative Physical Chemistry Laboratory Course. July, 860–863.
DeKock, R. L.; Glass, S. V. A Mechanical Analogue for Chemical Potential, Extent of Reaction, and the Gibbs Energy. February, 190–193.
DeKock, R. L.; Rioux, F. The Crucial Role of Kinetic Energy in Interpreting Ionization Energies. May, 537–539.
del Olmo, M.; Aranda, A.; Pérez-Ortín, J. E.; Tordera, V. Detection of Non-B-DNA Secondary Structures by S1 Nuclease Digestion. (CIB) June, 762–765.
DeLorenzo, R.; Kimbrough, D. R. Solving the Mystery of Fading Fingerprints with London Dispersion Forces. (AA) October, 1300–1301.
DeMeo, S. Circular Arguments or The Culture of Chemistry. (LTE) November, 1385.
DeMeo, S. Not an "Ideal" Reaction for Introductory Students. (LTE) November, 1385–1386.
Depaemelaere, S.; van Stam, J.; De Schryver, F. C. Micellar Aggregation Numbers—A Fluorescence Study. January, 93–98.
Derr, H. R. A Refrigerator Magnet Analogy. (LTE) February, 149.
Diana, E.; Kettle, S. F.; Rossetti, R.; Stanghellini, P. L. Bis(dicarbonyl-π-cyclopentadienyliron)—A Solid-State Vibrational Spectroscopic Lesson. October, 1333–1338.
Diemente, D. A Closer Look at the Addition of Equations and Reactions. (AA) March, 319–321.
Diemente, D. Demonstrations of the Enormity of Avogadro's Number. (AA) December, 1565–1566.
DiLullo, D.; Deckert, A. A.; Nestor, L. P. An Example of a Guided-Inquiry, Collaborative Physical Chemistry Laboratory Course. July, 860–863.
DiMuzio, S. J.; Hunter, A. D.; Bianconi, L. J.; Braho, D. L. Synthesis and Structure–Property Relationships in $(\eta^6\text{-Arene})Cr(CO)_3$ Chemistry: From Guided Experiments to Discovery Research. July, 891–893.
Doggett, G.; Sutcliffe, B. A Modern Approach to *L–S* Coupling in the Theory of Atomic Spectra. January, 110–114.
Dojahn, J. G.; Notestein, J.; Hélias, N.; Wentworth, W. E.; Chen, E. C.; Stearns, S. D. A Unique Qualitative GC Experiment for an Undergraduate Instrumental Methods Course Using Selective Photoionization Detectors. March, 360–364.
Dolan, E.; Zhang, Y.; Klarup, D. G. The Distribution Coefficient of Atrazine with Illinois Soils: A Laboratory Exercise in Environmental Chemistry. December, 1609–1610.
Domijan, J. D.; Henderson, S. K.; Fenn, C. A. Determination of Sugar Content in Commercial Beverages by Density: A Novel Experiment for General Chemistry Courses. September, 1122–1123.
Donlin, M. J.; Frey, R. F.; Putnam, C.; Proctor, J. K.; Bashkin, J. K. Analysis of Iron in Ferritin, the Iron-Storage Protein: A General Chemistry Experiment. April, 437–441.
Doscotch, M. A.; Evans, J. F.; Munson, E. J. Fourier Transform Nuclear Magnetic Resonance Spectroscopy Experiment for Undergraduate and Graduate Students. August, 1008–1013.
Dragan, S.; Fitch, A. Infrared Spectroscopy Determination of Lead Binding to Ethylenediaminotetraacetic Acid. (ACL) August, 1018–1021.
Dreisbach, J. H.; Hogan, T. P.; Stamford, A. M.; Greggo, J. W. Focus Groups and Exit Interviews Are Components of Chemistry Department Program Assessment. October, 1330–1332.
Drok, K. J.; Ritchie, I. M.; Power, G. P. A Simple Electrochemical Approach to Heterogeneous Reaction Kinetics. September, 1145–1149.
Drury, T. A.; Bell, M. A.; Gladwin, R. P. Implementing CAL in Chemistry: Practical Issues. (TECH) June, 781–785.
Duchovic, R. J. Teaching College General Chemistry: Techniques Designed To Communicate a Conceptual Framework. (CCD) July, 856–857.
Dueno, E.; Phanstiel, O.; Wang, Q. X. Synthesis of Exotic Soaps in the Chemistry Laboratory. May, 612–614.
Duncan, J.; Peterman, K. E.; Lentz, K. A ^{19}F NMR Study of Enzyme Activity. October, 1283–1284.
Dunn, J. G.; Kagi, R. I.; Phillips, D. N. Developing Professional Skills in a Third-Year Undergraduate Chemistry Course Offered in Western Australia. October, 1313–1316.

Dunn, J. G.; Phillips, D. N. Introducing Second Year Chemistry Students to Research Work through Mini-Projects. July, 866–869.
Durbach, S.; Bradley, J. D.; Bell, B.; Mungarulire, J.; Kimel, H. Hands-On Practical Chemistry for All—Why and How? November, 1406–1409.
Dwyer, T. J.; Norman, J. E.; Jasien, P. G. Rotational Barriers in Push–Pull Ethylenes: An Advanced Physical-Organic Project Including 2D EXSY and Computational Chemistry. December, 1635–1640.
Dybowski, C. R.; Noggle, J. H. Using the World Wide Web in a Course in Physical Chemistry. November, 1499.

E

Earl, B. L. Thermodynamics and Spontaneity. (LTE) June, 658–659.
Easter, J.; Kaess, M.; Cohn, K. Visual Basic and Excel in Chemical Modeling. (CBB) May, 642–643.
Eierman, R. J. Development of Analytical and Reporting Skills in Quantitative Analysis. July, 869–873.
Eierman, R. J. Students Select an Instrument at the Pittsburgh Conference. (ACL) May, 571–573.
El Seoud, O. A.; Takashima, K. The Spontaneous Hydrolysis of Methyl Chloroformate: A Physical Chemistry Experiment for Teaching Techniques in Chemical Kinetics. December, 1625–1627.
Elakovich, S. D. Illustrating Tetrahedral Carbons in Organic Compounds. (OPD) April, 479.
Elgren, T. E.; Marcoline, A. T. A Thermodynamic Study of Azide Binding to Myoglobin. (CIB) December, 1622–1623.
Ellis, A. B.; Campbell, D. J.; Lorenz, J. K.; Kuech, T. F.; Lisensky, G. C.; Whittingham, M. S. The Computer as a Materials Science Benchmark. March, 297–312.
Ellis, A. B.; Lisensky, G. C.; Blackwell, J. M. Solid State Resources CD-ROM: Abstract of Special Issue 12, 2nd Edition. (JCE SOFT) October, 1351–1352.
Englert, P.; Perone, S. P.; Pesek, J.; Stone, C. Transforming Traditional Sophomore Quant into a Course on Modern Analytical Science. November, 1444–1452.
Epstein, M. S. Using Bad Science To Teach Good Chemistry. November, 1399–1404.
Erickson, L. E.; Morris, K. F. The Energy Profile for Rotation about the C-C Bond in Substituted Ethanes: A Multi-Part Experimental and Computational Project for the Physical Chemistry Laboratory. July, 900–906.
Eubanks, I. D.; Eubanks, L. P. Assessment in Chemistry—Again a Hot Topic. December, 1539.
Eubanks, L. P.; Eubanks, I. D. Assessment in Chemistry—Again a Hot Topic. December, 1539.
Evans, J. F.; Doscotch, M. A.; Munson, E. J. Fourier Transform Nuclear Magnetic Resonance Spectroscopy Experiment for Undergraduate and Graduate Students. August, 1008–1013.
Everett, T. S. Grignard Synthesis of Various Tertiary Alcohols. January, 86–87.
Ezrahi, S.; Aserin, A.; Garti, N.; Berkovic, G. An Excursion into Phase Tetrahedra—Where Physical Chemistry and Geometry Meet. December, 1648–1652.

F

Fang, C. A Simplified Determination of Percent Oxygen in Air. (TD) January, 58–59.
Farrell, N.; Ross, P.; Roat, R. M. Applications of Inorganic Chemistry in Biology: An Interdisciplinary Graduate Course. (CCD) June, 739–740.
Fenn, C. A.; Henderson, S. K.; Domijan, J. D. Determination of Sugar Content in Commercial Beverages by Density: A Novel Experiment for General Chemistry Courses. September, 1122–1123.
Ferguson, G. K. Quantitative HPLC Analysis of a Psychotherapeutic Medication: Simultaneous Determination of Amitriptyline Hydrochloride and Perphenazine. December, 1615–1618.
Ferguson, G. K. Quantitative HPLC Analysis of an Analgesic/Caffeine Formulation: Determination of Caffeine. April, 467–469.
Ferreira, R. Tetrahedral Bond Angle. (LTE) September, 1087.
Finlayson-Pitts, B. J.; Quach, D. T.; Ciszkowski, N. A. A New GC-MS Experiment for the Undergraduate Instrumental Analysis Laboratory in Environmental Chemistry: Methyl-*t*-butyl Ether and Benzene in Gasoline. December, 1595–1598.
Finlayson-Pitts, B. J.; Wingen, L. M.; Low, J. C. Chromatography, Absorption, and Fluorescence: A New Instrumental Analysis Experiment on the Measurement of Polycyclic Aromatic Hydrocarbons in Cigarette Smoke. December, 1599–1603.
Fisher, S. J. Reforming the General Chemistry Textbook. (LTE) January, 10.
Fitch, A.; Dragan, S. Infrared Spectroscopy Determination of Lead Binding to Ethylenediaminotetraacetic Acid. (ACL) August, 1018–1021.
Foresman, J. B.; Salter, C. Naphthalene and Azulene I: Semimicro Bomb Calorimetry and Quantum Mechanical Calculations. October, 1341–1345.
Francisco, J. S.; Nicoll, G.; Trautmann, M. Integrating Multiple Teaching Methods into a General Chemistry Classroom. February, 210–213.
Fredericks, J. A Simple, Transparent Fume Hood. October, 1299.
Free, H. M. Public Outreach. December, 1533.
Freed, K.; Jameson, D. L.; Grzybowski, J. J.; Hammels, D. E.; Castellano, R. K.; Hoke, M. E.; Basquill, S.; Mendel, A.; Shoemaker, W. J. Synthesis of Some Cobaloxime Derivatives: A Demonstration of "Umpolung" in the Reactivity of an Organometallic Complex. April, 447–450.
Freeman, R. G.; McCurdy, D. Using Microwave Sample Decomposition in Undergraduate Analytical Chemistry. (NSF) August, 1033–1034.
Freilich, M.; Wildeman, T. R.; Kelter, P. B. Highlights of the Dallas ACS Meeting. June, 669–670.
Frey, R. F.; Donlin, M. J.; Putnam, C.; Proctor, J. K.; Bashkin, J. K. Analysis of Iron in Ferritin, the Iron-Storage Protein: A General Chemistry Experiment. April, 437–441.
Friesen, R. J. 15th Biennial Conference on Chemical Education. November, 1383.

G

Gallet, C. Problem-Solving Teaching in the Chemistry Laboratory: Leaving the Cooks…. January, 72–77.
Garcia, S. Am I Doing the Right Thing? (LTE) April, 411.
García-Jareño, J. J.; Benito, D.; Navarro-Laboulais, J.; Vicente, F. Electrochemical Behavior of Electrodeposited Prussian Blue Films on ITO Electrode: An Attractive Laboratory Experience. July, 881–884.
García-Ruiz, J. M.; Moreno, A.; Otálora, F.; Rondón, D.; Viedma, C.; Zauscher, F. Teaching Protein Crystallization by the Gel Acupuncture Method. April, 442–446.
Garti, N.; Ezrahi, S.; Aserin, A.; Berkovic, G. An Excursion into Phase Tetrahedra—Where Physical Chemistry and Geometry Meet. December, 1648–1652.
George, A. V.; Baker, R. W.; Harding, M. M. Models and Molecules—A Workshop on Stereoisomers. July, 853–855.
Gervay, J. A Newly Begun Career in Chemistry and Education. December, 1521.
Gettys, N. S. Challenges for Chemistry in the 21st Century: Report on the American Chemical Society Presidential Event. June, 665–668.
Gettys, N. S.; Holmes, J. L. General Chemistry Collection CD-ROM for Students: Abstract of Special Issue 16, 2nd Edition. (JCE SOFT) April, 511–512.
Gettys, N. S.; Holmes, J. L. Prospectus. (JCE SOFT) January, 127–128.
Gilbert, G. L. Percent Composition and Empirical Formula—A New View. July, 851.
Gillespie, R. J. Covalent and Ionic Molecules: Why Are BeF_2 and AlF_3 High Melting Point Solids whereas BF_3 and SiF_4 Are Gases? July, 923–925.
Gillespie, R. J.; Moog, R. S.; Spencer, J. N. Deducing the Shell Model from Ionization Energies and the Use of Models in Introductory Chemistry. May, 539–540.
Gillespie, R. J. Reforming the General Chemistry Textbook. (LTE) January, 32.
Gillespie, R. J.; Spencer, J. N.; Moog, R. S. Demystifying Introductory Chemistry. (LTE) May, 542–543.
Gillespie, R. J.; Spencer, J. N.; Moog, R. S. Improving Introductory Chemistry. (LTE) May, 541–542.
Giunta, C. J. Using History To Teach Scientific Method: The Case of Argon. October, 1322–1325.
Gladwin, R. P.; Bell, M. A.; Drury, T. A. Implementing CAL in Chemistry: Practical Issues. (TECH) June, 781–785.
Glass, S. V.; DeKock, R. L. A Mechanical Analogue for Chemical Potential, Extent of Reaction, and the Gibbs Energy. February, 190–193.
Glasser, L. Representing Numbers in the Computer: A Laboratory Exercise. June, 778–779.
Glenn, K. General Chemistry Teaching Workshop: A Student's View. February, 147.
Goedhart, M. J.; van Keulen, H.; Mulder, T. M.; Verdonk, A. H.; de Vos, W. Teaching Distillation Knowledge: A Video Film about Distillation Bridging a Gap Between Theory and Practice. March, 378–381.
Goh, N. K.; Subramaniam, R.; Chia, L. S. Masses of the Fundamental Particles in the Bound State. (LTE) April, 410.
Golden, M.; Wisniak, J. Predicting Saturation Curve of a Pure Substance Using Maxwell's Rule. February, 200–203.
Goldwhite, H. Articulation. (LTE) November, 1387.
Goodstein, M. P. One-Hundredth Anniversary of the New England Association of Chemistry Teachers. July, 815–816.
Goscinska, T. Laboratory-Made Electrochemical Sensors for Adsorptive Stripping Voltammetry. (ML) August, 1038–1039.
Goscinska, T.; Mocellin, E. Modified Carbon Electrodes for Microscale Electrochemistry. (ML) June, 771–772.
Gosser, D. K.; Roth, V. The Workshop Chemistry Project: Peer-Led Team-Learning. (NSF) February, 185–187.
Gotch, A. J.; Coleman, S. L. Spatial Perception Skills of Chemistry Students. (CER) February, 206–209.
Govindarajoo, G.; Waldman, A. S.; Schechinger, L.; Nowick, J. S.; Pignolet, L. H. The Alginate Demonstration: Polymers, Food Science, and Ion Exchange. (TD) November, 1430–1431.
Goyal, S.; Pandita, S. An Efficient Microscale Procedure for the Synthesis of Aspirin. (ML) June, 770.
Grätzel, M.; Smestad, G. P. Demonstrating Electron Transfer and Nanotechnology: A Natural Dye-Sensitized Nanocrystalline Energy Converter. June, 752–756.
Green, D. B. Solubility and the Perpetuation of Error. (LTE) February, 138.
Green, T. K.; Dahl, D. B.; Riley, J. T. Chromatographic Separation Techniques for Undergraduates. (NSF) October, 1209.
Green, T. K.; Valenzuela, F. A.; Dahl, D. B. Synthesis and Separation of a Diastereomeric Sulfonium Ion by Capillary Zone Electrophoresis. December, 1590–1592.

Greenbowe, T. J.; Burke, K. A. Collaborative Distance Education: The Iowa Chemistry Education Alliance. October, 1308–1312.
Greenbowe, T. J.; Burke, K. A.; Windschitl, M. A. Developing and Using Conceptual Computer Animations for Chemistry Instruction. December, 1658–1661.
Greenbowe, T. J.; Sanger, M. J. The ChemCom Curriculum. (LTE) June, 691–693.
Greggo, J. W., Dreisbach, J. H.; Hogan, T. P.; Stamford, A. M. Focus Groups and Exit Interviews Are Components of Chemistry Department Program Assessment. October, 1330–1332.
Grinbaum, B.; Semiat, R. To Teach Chemists Engineering. May, 583–586.
Gruber, I.; Gruber, J.; Li, R. W. A Solid-State Water Flow Fault Safety Switch for the Chemical Laboratory. September, 1132.
Gruber, J.; Li, R. W.; Gruber, I. A Solid-State Water Flow Fault Safety Switch for the Chemical Laboratory. September, 1132.
Grundman, J.; Hage, D. S.; Chattopadhyay, A.; Wolfe, C. A.; Kelter, P. B. Determination of Nitrate and Nitrite in Water by Capillary Electrophoresis: An Undergraduate Laboratory Experiment. December, 1588–1590.
Grzybowski, J. J.; Jameson, D. L.; Hammels, D. E.; Castellano, R. K.; Hoke, M. E.; Freed, K.; Basquill, S.; Mendel, A.; Shoemaker, W. J. Synthesis of Some Cobaloxime Derivatives: A Demonstration of "Umpolung" in the Reactivity of an Organometallic Complex. April, 447–450.
Guare, C. J. Precision and Accuracy. (LTE) August, 971.
Guevara, E.; Tejada, S.; Olivares, E. Slide Projector Corrosion Cell. (OPD) June, 747–748.
Gupta, H. O.; Singh, R. Low-Cost Science Teaching Equipment for Visually Impaired Children. (CET) May, 610–612.
Gutwill, J.; Anthony, S.; Mernitz, H.; Spencer, B.; Kegley, S. E.; Molinaro, M. The ChemLinks and ModularCHEM Consortia: Using Active and Context-Based Learning To Teach Students How Chemistry Is Actually Done. (NSF) March, 322–324.
Guy, R. D.; Ramaley, L.; Wentzell, P. D. An Experiment in the Sampling of Solids for Chemical Analysis. August, 1028–1033.

H

Hage, D. S.; Chattopadhyay, A.; Wolfe, C. A.; Grundman, J.; Kelter, P. B. Determination of Nitrate and Nitrite in Water by Capillary Electrophoresis: An Undergraduate Laboratory Experiment. December, 1588–1590.
Hage, D. S.; Wolfe, C. A.; Oates, M. R. Automated Protein Assay Using Flow Injection Analysis. August, 1025–1028.
Haines, R. S. Teaching Computer Concepts to Undergraduate Chemists. (TECH) June, 785–787.
Hall, M. L.; Wolfson, A. J.; Allen, M. M. Introductory Chemistry and Biology Taught as an Interdisciplinary Mini-Cluster. June, 737–739.
Hall, M. R.; Battino, R. Overhead Projector Voltmeter Aids. (OPD) May, 577.
Hall, P. G. Production of Numerical Chemical Problems Using a Spreadsheet. (CBB) February, 243–245.
Halpern, A. M.; Ramachandran, B. R. An Experiment in Electronic Spectroscopy: Information Enhancement Using Second Derivative Analysis. February, 234–237.
Halstead, J. A. Creating Undergraduate Research Opportunities in Changing Communities: CUR Seventh National Conference. (CUR) April, 407–408.
Halstead, J. A. Shaping the Future: CUR Seventh National Conference Continues a National Dialogue. (CUR) November, 1366–1367.
Halstead, J. A. Spring Shock! Impact of Spring Snowmelt on Lakes and Streams. (JCE Classroom Activity) April, 400.
Hamada, K.; Wakabayashi, F.; Sone, K. CD-ROM Spectroscope: A Simple and Inexpensive Tool for Classroom Demonstrations on Chemical Spectroscopy. (CET) December, 1569–1570.
Hambly, G. F. "Mud" + "Blood"—A Very Colorful Demonstration. (TD) January, 56–57.
Hammels, D. E.; Jameson, D. L.; Grzybowski, J. J.; Castellano, R. K.; Hoke, M. E.; Freed, K.; Basquill, S.; Mendel, A.; Shoemaker, W. J. Synthesis of Some Cobaloxime Derivatives: A Demonstration of "Umpolung" in the Reactivity of an Organometallic Complex. April, 447–450.
Hannachi, H.; Anoune, N.; Lantéri, P.; Longeray, R.; Arnaud, C. Use of Theoretical Chemistry To Explain Baeyer–Villiger Oxidations of Methoxy Aromatic Aldehydes. October, 1290–1293.
Hanson, D. M.; Wolfskill, T. Improving the Teaching/Learning Process in General Chemistry: Report on the 1997 Stony Brook General Chemistry Teaching Workshop. February, 143–147.
Harding, M. M.; Baker, R. W.; George, A. V. Models and Molecules—A Workshop on Stereoisomers. July, 853–855.
Harpp, D. N.; Hogan, J. J. Crime in the Classroom Part III: The Case of the Ultimate Identical Twin. April, 482–483.
Harris, D. C. Nonlinear Least-Squares Curve Fitting with Microsoft Excel Solver. (CBB) January, 119–121.
Harris, D. F.; Caballero, J. F. There Seems To Be Uncertainty about the Use of Significant Figures in Reporting Uncertainties of Results. August, 996.
Harris, K. D.; Wright, M. R.; Patterson, I. L. Non-Ideality and Ion Association in Aqueous Electrolyte Solutions: Overview and a Simple Experimental Approach. March, 352–357.
Hartman, J. S. Reforming the General Chemistry Textbook. (LTE) January, 26.
Hathaway, B. A. Reduction of 2,6-Dimethylcyclohexanone with Sodium Borohydride Revisited: A Correction on the Structural Assignments of the Products, and the Discovery of a Solvent Effect. December, 1623–1624.
Hawkes, S. J. Reforming the General Chemistry Textbook. (LTE) January, 10.
Hawkes, S. J. Solubility and the Perpetuation of Error. (LTE) February, 138.
Hawkes, S. J. What Should We Teach Beginners about Solubility and Solubility Products? September, 1179–1181.
Haworth, D. T. Some Linguistic Detail on Chelation. January, 47.
Heffner, J. E.; Raber, J. C.; Moe, O. A.; Wigal, C. T. Using Cyclic Voltammetry and Molecular Modeling To Determine Substituent Effects in the One-Electron Reduction of Benzoquinones. March, 365–367.
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Henchman, M.; Steel, C. Understanding the Quadrupole Mass Filter through Computer Simulation. August, 1049–1054.
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Herrera, A.; Almy, J. Notes on Converting to Microscale. (ML) January, 83–84.
Herron, J. D. Chemical Education Research. December, 1537.
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Hieftje, G. M.; Sesi, N. N.; Borer, M. W.; Starn, T. K. A Standardized Approach to Collecting and Calculating Noise Amplitude Spectra. (TICI) June, 788–792.
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Hilosky, A.; Sutman, F.; Schmuckler, J. Is Laboratory Based Instruction in Beginning College-Level Chemistry Worth the Effort and Expense? January, 100–104.
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Hodgson, S. C.; Ngeh, L. N.; Orbell, J. D.; Bigger, S. W. A Student Experiment in Non-Isothermal Chemical Kinetics. September, 1150–1153.
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Hogan, T. P.; Dreisbach, J. H.; Stamford, A. M.; Greggo, J. W. Focus Groups and Exit Interviews Are Components of Chemistry Department Program Assessment. October, 1330–1332.
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Holme, T. A. Using Interactive Anonymous Quizzes in Large Lecture General Chemistry Courses. May, 574–576.
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Hor, T. A.; Tan, Y. S.; Tan, B. H.; Lee, H. K.; Yan, Y. K. Designing a Self-Contained Qualitative Analysis Test for Transition Metal Ions. April, 456–458.
Horowitz, G.; Viswanathan, R. Integrating Computers into the First-Year Chemistry Laboratory: Application of Raoult's Law to a Two-Component System. (CBB) September, 1124–1125.
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Hughes, J. G. Thermochromic Solids. (TD) January, 57.
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Humbert, M.; Thomasson, K. A.; Lofthus-Merschman, S.; Kulevsky, N. Applying Statistics in the Undergraduate Chemistry Laboratory: Experiments with Food Dyes. February, 231–233.
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Kagi, R. I.; Dunn, J. G.; Phillips, D. N. Developing Professional Skills in a Third-Year Undergraduate Chemistry Course Offered in Western Australia. October, 1313–1316.
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Kauffman, G. B.; Mayo, I. The Thermobile™: A Nitinol-Based Scientific Toy. (POC) March, 313–314.
Kavanah, P.; Zipp, A. P. Gas Experiments with Plastic Soda Bottles. November, 1405–1406.
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Kim, Y. J. A Simple Streaking Device For Preparative Thin Layer Chromatography. May, 640.
Kimbrough, D. R.; DeLorenzo, R. Solving the Mystery of Fading Fingerprints with London Dispersion Forces. (AA) October, 1300–1301.
Kimbrough, D. R. Heat Capacity, Body Temperature, and Hypothermia. (AA) January, 48–49.
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Kliebert, N. M.; Janusa, M. A.; Andermann, L. J.; Nannie, M. H. Determination of Chloride Concentration Using Capillary Zone Electrophoresis: An Instrumental Analysis Chemistry Laboratory Experiment. November, 1463–1465.
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Kokovkin, V. V.; Bel'chenko, L. A. Features of Training Tasks for Field Ecological Practice of Chemistry-Ecology Students. May, 580–582.
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Koster, D. F. Delivery of Uniform and Countable Drops. May, 637.
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Koubek, E.; Copper, C. L. A Kinetics Experiment To Demonstrate the Role of a Catalyst in a Chemical Reaction: A Versatile Exercise for General or Physical Chemistry Students. January, 87–90.
Kreke, K.; Towns, M. H.; Sauder, D.; Stout, R.; Long, G.; Zielinski, T. J. An Assessment of a Physical Chemistry Online Activity. (CER) December, 1653–1657.
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Lagally, M. G. Self-Organized Quantum Dots. (CBN) March, 277–279.
Lagowski, J. J. Chemical Education: Past, Present, and Future. April, 425–436.
Lagowski, J. J. The Texas Period: 1979–1996. December, 1545.
Laing, M. Lavoisier Preempted Gay-Lussac by 20 Years! February, 177–178.
LaLonde, D. E.; Angel, S. A. Science Success Strategies: An Interdisciplinary Course for Improving Science and Mathematics Education. November, 1437–1441.
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Lichter, R. L. We Are All Chemistry Educators. December, 1530.
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Lower, S. K. Thermal Physics (and Some Chemistry) of the Atmosphere. (AA) July, 837–840.
Lubin-Germain, N.; Augé, J. Hetero Diels–Alder Reaction with Aqueous Glyoxylic Acid: An Experiment in Organic Synthesis and 2-D NMR Analysis for Advanced Undergraduate Students. October, 1285–1287.
Luck, R. L.; Kohli, M.; Ohtamaa, V. The Source of the Cloud Produced upon Adding Dry Ice to Water. January, 60–61.
Lunelli, B. Claisen's Flask and Its Evolution. May, 638–639.
Lunelli, B. Swift Measurement of Densities of Low-Melting-Point Compounds. May, 639.

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Ma, N. L.; Tsang, C. W. Curve-Fitting Approach to Potentiometric Titration Using Spreadsheet. (CBB) January, 122–123.
Mabrouk, P. A. Shaping America's Scientific and Technological Workforce: NSF-Sponsored Workshops on Curricular Developments in the Analytical Sciences. May, 527–529.
Macomber, R. S. Exploring the $C_4H_7^+$ Energy Surface: A Computational Discovery Process for Students. (TECH) October, 1346–1350.
Magner, J. T.; Barreto, J. NSF Curriculum Reform, Get Involved! ($2YC_3$) August, 956–957.
Magnusson, C. The ChemCom Curriculum. (LTE) June, 691–693.
Manners, I.; Ni, Y.; Sheridan, J. B.; Oakley, R. T. Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. June, 766–768.
Marchozzi, E.; Aponick, A.; Johnston, C. R.; Wigal, C. T. Determining the Authenticity of Gemstones Using Raman Spectroscopy. April, 465–466.
Marcoline, A. T.; Elgren, T. E. A Thermodynamic Study of Azide Binding to Myoglobin. (CIB) December, 1622–1623.
Marcus, Y.; Ben-Dor, L. The Octahedral–Square-Planar Transition of Nickel Chelates. November, 1458–1459.
Markgraf, J. H.; Choi, B. Y. An Aldehyde Derivative. February, 222–223.
Markham, J. R. Flying over Atoms CD-ROM: Abstract of Special Issue 19. (JCE SOFT) February, 247–248.
Martí, J.; Besalú, E. Exploring the Rayleigh–Ritz Variational Principle. January, 105–107.
Martin, E. V. Some Aspects of Yeast Anaerobic Metabolism Examined by the Inhibition of Pyruvate Decarboxylase. October, 1281–1283.
Martin, J. D. Beyond the Textbook: A First-Year Introduction to Research at a Research I University. March, 325–327.
Martin, N. H. Integration of Computational Chemistry into the Chemistry Curriculum. (CBB) February, 241–243.
Martín, O.; Mendicuti, F.; Tarazona, M. P. Use of a Reliable Homemade Dilatometer To Study the Kinetics of the Radical Chain Polymerization of PMMA: An Undergraduate Polymer Chemistry Laboratory Kinetics Experiment. November, 1479–1481.
Martin, R. B. Why Does an Equilibrium Constant Not Appear Constant? November, 1497–1498.
Martincigh, B. S.; Bond, R. A.; Mika, J. R.; Simoyi, R. H. The Quasi-Steady-State Approximation: Numerical Validation. September, 1158–1165.
Martinho, J. M.; Ilharco, L. M.; Martins, C. I. A Fluorescence Study of Hybrid and Nonhybrid Sol-Gel Systems. November, 1466–1469.
Martins, C. I.; Ilharco, L. M.; Martinho, J. M. A Fluorescence Study of Hybrid and Nonhybrid Sol-Gel Systems. November, 1466–1469.
Marzzacco, C. J. An Analogy To Help Students Understand Reaction Orders. (AA) April, 482.
Marzzacco, C. J. The Effects of Salts and Nonelectrolytes on the Solubility of Potassium Bitartrate: An Introductory Chemistry Discovery Experiment. December, 1628–1629.
Matteini, M.; Ciliberto, E.; Spoto, G.; Puglisi, C. A Scientific Approach to Cultural Heritage Preservation: A Case Study of Vándalistic Acts on Important Roman Mosaics. October, 1302–1306.
Mayo, I.; Kauffman, G. B. The Thermobile™: A Nitinol-Based Scientific Toy. (POC) March, 313–314.
McBane, G. C. Chemistry from Telephone Numbers: The False Isokinetic Relationship. July, 919–922.
McCurdy, D.; Freeman, R. G. Using Microwave Sample Decomposition in Undergraduate Analytical Chemistry. (NSF) August, 1033–1034.
McDevitt, V. L.; Rodríguez, A.; Williams, K. R. Analysis of Soft Drinks: UV Spectrophotometry, Liquid Chromatography, and Capillary Electrophoresis. May, 625–629.
McGowan, C.; Singh, M. M.; Szafran, Z.; Pike, R. M. A Modified Microburet for Microscale Titration. (ML) March, 371.
McGowens, S. I.; Silversmith, E. F. Organic Reactions Involving Bromine: Puzzles for the Organic Laboratory. October, 1293–1294.
McHale, M. E.; Pandey, S.; Coym, K. S.; Acree, W. E. Bilinear Regression Analysis as a Means To Reduce Matrix Effects in Simultaneous Spectrophotometric Determination of Cr(III) and Co(II): A Quantitative Analysis Laboratory Experiment. July, 878–880.
McHale, M. E.; Pandey, S.; Horton, A. M.; Padilla, S. A.; Trufant, A. L.; De La Sancha, N. U.; Vela, E.; Acree, W. E. Kinetics-Based Indirect Spectrophotometric Method for Simultaneous Determination of MnO^{4-} and $Cr_2O_7^{2-}$: A Modern Instrumental Analysis Laboratory Experiment. April, 450–452.
McKee, S.; Collard, D. M. Polymer Chemistry in Science Museums: A Survey of Educational Resources. November, 1419–1423.
McKelvy, G. M. Flame Tests That Are Portable, Storable, and Easy To Use. (TD) January, 55–56.
McKenzie, P.; Sprague, E. D.; Voorhees, R.; Alexander, J. J.; Padolik, P. MeasureNet—Electronic Measurement Network for the Freshman Chemistry Laboratory. (NSF) July, 859.
McKone, H. T. Presidential Education Policy. (LTE) September, 1088.
McManaman, C.; Wedvik, J. C.; Anderson, J. S.; Carroll, M. K. Intermolecular Forces in Introductory Chemistry Studied by Gas Chromatography, Computer Models, and Viscometry. July, 885–888.
McNaught, I. J. A Modified Hydrogen/Oxygen Balloon Demonstration. January, 52.
McNaught, I. J. G and S: Issue 9802W for Windows. (JCE SOFT) May, 645.
McNelis, B. J. Mechanism Templates: Lecture Aids for Effective Presentation of Mechanism in Introductory Organic Chemistry. April, 479–481.
McNellis, L. A.; Anderson, G. L. Enzyme-Linked Antibodies: A Laboratory Introduction to the ELISA. October, 1275–1277.
Mendel, A.; Jameson, D. L.; Grzybowski, J. J.; Hammels, D. E.; Castellano, R. K.; Hoke, M. E.; Freed, K.; Basquill, S.; Shoemaker, W. J. Synthesis of Some Cobaloxime Derivatives: A Demonstration of "Umpolung" in the Reactivity of an Organometallic Complex. April, 447–450.
Mendicuti, F.; Martín, O.; Tarazona, M. P. Use of a Reliable Homemade Dilatometer To Study the Kinetics of the Radical Chain Polymerization of PMMA: An Undergraduate Polymer Chemistry Laboratory Kinetics Experiment. November, 1479–1481.
Menger, F. M.; Zana, R.; Lindman, B. Portraying the Structure of Micelles. January, 115.
Mernitz, H.; Anthony, S.; Spencer, B.; Gutwill, J.; Kegley, S. E.; Molinaro, M. The ChemLinks and ModularCHEM Consortia: Using Active and Context-Based Learning To Teach Students How Chemistry Is Actually Done. (NSF) March, 322–324.
Meyer, E. F. Formation and Dimerization of NO_2. (LTE) September, 1088.
Miburo, B. B. Simplified Lewis Structure Drawing for Nonscience Majors. March, 317–319.
Midden, W. R. Precision and Accuracy. (LTE) August, 971.
Mika, J. R.; Bond, R. A.; Martincigh, B. S.; Simoyi, R. H. The Quasi-Steady-State Approximation: Numerical Validation. September, 1158–1165.
Millar, S. B.; Wright, J. C.; Koscuik, S. A.; Penberthy, D. L.; Williams, P. H.; Wampold, B. E. A Novel Strategy for Assessing the Effects of Curriculum Reform on Student Competence. August, 986–992.
Minas da Piedade, M. E.; Berberan-Santos, M. N. Atomic Emission Spectra Using a UV-Vis Spectrophotometer and an Optical Fiber Guided Light Source. August, 1013–1017.
Miranda, J.; León, D.; Uridil, S. Structural Analysis and Modeling of Proteins on the Web: An Investigation for Biochemistry Undergraduates. (TECH) June, 731–734.
Miranda, M. J.; Arnáiz, F. J. Microscale Synthesis of $UO_2Cl_2(OPPh_3)_2$. November, 1457–1458.
Missen, R. W.; Smith, W. R. An Analysis of the Algebraic Method for Balancing Chemical Reactions. (LTE) March, 286.
Mize, J. D.; Moore, B. G. Teaching Theoretical Physical Chemistry: Density Functional Theory and the Taylor Expansion of the van der Waals Free Energy. July, 858.
Mocellin, E.; Goscinska, T. Modified Carbon Electrodes for Microscale Electrochemistry. (ML) June, 771–772.
Mocellin, E.; Russell, R.; Ravera, M. The Microscale Synthesis and Electrochemistry of Low-Valent Mononuclear Complexes $(\eta^3\text{-}C_3H_4)Fe(CO)_3X$ (X = I, Br, Cl). (ML) June, 773–775.
Moe, O. A.; Heffner, J. E.; Raber, J. C.; Wigal, C. T. Using Cyclic Voltammetry and Molecular Modeling To Determine Substituent Effects in the One-Electron Reduction of Benzoquinones. March, 365–367.
Molinaro, M.; Anthony, S.; Mernitz, H.; Spencer, B.; Gutwill, J.; Kegley, S. E. The ChemLinks and ModularCHEM Consortia: Using Active and Context-Based Learning To Teach Students How Chemistry Is Actually Done. (NSF) March, 322–324.
Moog, R. S.; Gillespie, R. J.; Spencer, J. N. Deducing the Shell Model from Ionization Energies and the Use of Models in Introductory Chemistry. May, 539–540.
Moog, R. S.; Gillespie, R. J.; Spencer, J. N. Demystifying Introductory Chemistry. (LTE) May, 542–543.
Moog, R. S.; Spencer, J. N.; Gillespie, R. J. Improving Introductory Chemistry. (LTE) May, 541–542.
Moore, B. G.; Mize, J. D. Teaching Theoretical Physical Chemistry: Density Functional Theory and the Taylor Expansion of the van der Waals Free Energy. July, 858.

Moore, C. B.; Spencer, B.; Rose, N. Reforming the General Chemistry Textbook. (LTE) January, 31.
Moore, J.; Bell, S. C. Integration of Quality Assurance/Quality Control into Quantitative Analysis. July, 874–877.
Moore, J. W. A Decade of Instrumentation and Laboratory Improvement. (Editorial) July, 799.
Moore, J. W. Are All of the Children Below Average? (Editorial) June, 655.
Moore, J. W. Education versus Training. (Editorial) February, 135.
Moore, J. W. Getting By. (Editorial) March, 255.
Moore, J. W. History, Chemistry, and a Longer View. (Editorial) October, 1199.
Moore, J. W.; Jacobsen, J. J. Chemistry Comes Alive!, Vol. 2: Abstract of Special Issue 21 on CD-ROM. (JCE SOFT) July, 927–928.
Moore. J. W. Persistence. (Editorial) November, 1359.
Moore, J. W. Repeating the Past. (Editorial) May, 519.
Moore, J. W. Science Education Standards. (Editorial) April, 391.
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Moore, J. W. The More Things Change the More They Stay the Same. (Editorial) January, 7.
Moore, J. W. This *Journal*'s Future. (Editorial) September, 1063.
Moore, J. W. Looking Outward from the Central Science. (Editorial) December, 1511.
Moreno, A.; García-Ruiz, J. M.; Otálora, F.; Rondón, D.; Viedma, C.; Zauscher, F. Teaching Protein Crystallization by the Gel Acupuncture Method. April, 442–446.
Morgan, C.; Swartling, D. J. Lemon Cells Revisited—The Lemon-Powered Calculator. February, 181–182.
Morris, K. F.; Erickson, L. E. The Energy Profile for Rotation about the C-C Bond in Substituted Ethanes: A Multi-Part Experimental and Computational Project for the Physical Chemistry Laboratory. July, 900–906.
Mosher, M. D.; Ojha, S. Hybridization and Structural Properties: A Physical Organic Chemistry Experiment. July, 888–890.
Mosher, M.; Vandaveer, W. R. The Blue Bottle Revisited. (LTE) September, 1067.
Mourou, G. Ultrahigh-Intensity Lasers: Nonlinear Optics in the Relativistic Regime for Future Applications in Time-Resolved Chemistry. (Waters Symposium) May, 565–570.
Mukherjee, D.; Kadhim, N. J.; Laurie, S. H. Chemical Etching of Group III–V Semiconductors. (POC) July, 840–843.
Mulder, J. J. The π-Electron-System of Monocyclic Polyenes $C_{2n}H_{2n}$ with Alternating Single and Double Bonds. May, 594–595.
Mulder, T. M.; Goedhart, M. J.; van Keulen, H.; Verdonk, A. H.; de Vos, W. Teaching Distillation Knowledge: A Video Film about Distillation Bridging a Gap Between Theory and Practice. March, 378–381.
Mungarulire, J.; Bradley, J. D.; Durbach, S.; Bell, B.; Kimel, H. Hands-On Practical Chemistry for All—Why and How? November, 1406–1409.
Munson, E. J.; Doscotch, M. A.; Evans, J. F. Fourier Transform Nuclear Magnetic Resonance Spectroscopy Experiment for Undergraduate and Graduate Students. August, 1008–1013.
Muranaka, K. Precision and Accuracy. (LTE) August, 970.
Murray, G. M.; Jenkins, A. L. Enhanced Luminescence of Lanthanides: Determination of Europium by Enhanced Luminescence. February, 227–230.
Musfeldt, J. L.; Kim, A. Understanding Chemical Structure/Physical Property Relationships in Polymers through Molecular Modeling and Thermal Analysis Techniques. July, 893–896.
Muyskens, M. A. Beer's Law: The Real Hazards. (LTE) December, 1514–1515.
Myers, R. L. Using Bottled Water: A Problem-Solving Exercise in Chemical Identification. December, 1585–1587.
Myers, R. T. Boiling Point and Molecular Weight. (LTE) April, 394.
Myers, S. A.; Stroebel, G. G. Introductory Electrochemistry for Kids—Food for Thought, and Human Potential. (CFK) February, 178–180.

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Nadler, W.; Smith, A. L.; Thorne, E. J. An Inexpensive Detector for Gas Chromatography. September, 1129–1132.
Nannie, M. H.; Janusa, M. A.; Andermann, L. J.; Kliebert, N. M. Determination of Chloride Concentration Using Capillary Zone Electrophoresis: An Instrumental Analysis Chemistry Laboratory Experiment. November, 1463–1465.
Navarro-Laboulais, J.; García-Jareño, J. J.; Benito, D.; Vicente, F. Electrochemical Behavior of Electrodeposited Prussian Blue Films on ITO Electrode: An Attractive Laboratory Experience. July, 881–884.
Neeland, E. G.; Knoess, H. P. A Modified Synthesis of the Insect Repellent DEET. October, 1267–1268.
Neeland, E. G. Stereowordimers—Minding Your P's and Q's. December, 1573.
Nestor, L. P.; Deckert, A. A.; DiLullo, D. An Example of a Guided-Inquiry, Collaborative Physical Chemistry Laboratory Course. July, 860–863.
Ngeh, L. N.; Hodgson, S. C.; Orbell, J. D.; Bigger, S. W. A Student Experiment in Non-Isothermal Chemical Kinetics. September, 1150–1153.
Ni, Y.; Manners, I.; Sheridan, J. B.; Oakley, R. T. Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. June, 766–768.
Niac, G.; Voiculescu, V.; Simoiu, L. Analysis of Chemical Reactions by Means of Isoconversion Curves: K_n = Constant. February, 203–206.
Nicolaou, K. C.; Sorensen, E. J.; Winssinger, N. The Art and Science of Organic and Natural Products Synthesis. October, 1225–1258.
Nicoll, G.; Francisco, J. S.; Trautmann, M. Integrating Multiple Teaching Methods into a General Chemistry Classroom. February, 210–213.
Noggle, J. H.; Dybowski, C. R. Using the World Wide Web in a Course in Physical Chemistry. November, 1499.
Norman, J. E.; Dwyer, T. J.; Jasien, P. G. Rotational Barriers in Push–Pull Ethylenes: An Advanced Physical-Organic Project Including 2D EXSY and Computational Chemistry. December, 1635–1640.
Norrod, K.; Weaver, G. C. Surface-Enhanced Raman Spectroscopy: A Novel Physical Chemistry Experiment for the Undergraduate Laboratory. May, 621–624.
North, M. The Baker's Yeast Reduction of Keto-Esters in Organic Solvents: A One-Week Research Project for Undergraduate Students. May, 630–631.
Northrop, D. B. On the Meaning of K_m and V/K in Enzyme Kinetics. (CIB) September, 1153–1157.
Notestein, J.; Hélias, N.; Wentworth, W. E.; Dojahn, J. G.; Chen, E. C.; Stearns, S. D. A Unique Qualitative GC Experiment for an Undergraduate Instrumental Methods Course Using Selective Photoionization Detectors. March, 360–364.
Novak, I. Chemical Kinetics without Calculus. December, 1574–1575.
Novak, I. Probability of Collisions. (RSA) July, 852.
Novak, I. What Good Is (Journal of) Chemical Education? (LTE) April, 412.
Nowick, J. S.; Waldman, A. S.; Schechinger, L.; Govindarajoo, G.; Pignolet, L. H. The Alginate Demonstration: Polymers, Food Science, and Ion Exchange. (TD) November, 1430–1431.
Nurrenbern, S. C.; Robinson, W. R. Conceptual Questions and Challenge Problems. (JCE Online) November, 1502–1503.

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O'Brien, J. F.; Schmidt, B. F. REDUCE: A Program for Reducing Reducible Representations. October, 1338.
Oakley, R. T.; Ni, Y.; Manners, I.; Sheridan, J. B. Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. June, 766–768.
Oates, M. R.; Wolfe, C. A.; Hage, D. S. Automated Protein Assay Using Flow Injection Analysis. August, 1025–1028.
Ochs, R. S. The First-Day Quiz as a Teaching Technique. April, 401–404.
Ochs, R. S. Thermodynamics and Spontaneity. (LTE) June, 659.
Odom, J. L. Chemistry in the Public Domain. (LTE) September, 1087.
Ogilvie, J. F. Correction to *J. Chem. Educ.* **1994**, *71*, A223–A227. (Correction) April, 412.
Ohtamaa, V.; Kohli, M.; Luck, R. L. The Source of the Cloud Produced upon Adding Dry Ice to Water. January, 60–61.
Ojha, S.; Mosher, M. D. Hybridization and Structural Properties: A Physical Organic Chemistry Experiment. July, 888–890.
Olbregts, J. Caveat on IR Spectroscopy of CO and NO. (LTE) March, 258.
Oles, P. J. Fractional Factorial Experimental Design as a Teaching Tool for Quantitative Analysis. March, 357–359.
Olivares, E.; Tejada, S.; Guevara, E. Slide Projector Corrosion Cell. (OPD) June, 747–748.
Oliver-Hoyo, M.; Solomon, S.; Hur, C. Generating Water-Soluble Noxious Gases: An Overhead Projector Demonstration. (OPD) December, 1581–1582.
Olmsted, J. A. Synthesis of Aspirin: A General Chemistry Experiment. October, 1261–1263.
Olson, J. A. An Analysis of the Algebraic Method for Balancing Chemical Reactions. (LTE) March, 287.
Olson, J. A. Why Balance Hypothetical Reactions? (LTE) March, 285.
Orbell, J. D.; Hodgson, S. C.; Ngeh, L. N.; Bigger, S. W. A Student Experiment in Non-Isothermal Chemical Kinetics. September, 1150–1153.
Orna, M. V. Chemistry at the Art/Archeology Interface. (LTE) July, 829.
Orna, M. V. The Chemical Heritage Foundation—Fifteen Years of Service to the Chemical Community. April, 398–399.
Ostercamp, D. L. Practical Origami in the Microscale Organic Lab. (CET) November, 1456.
Otálora, F.; García-Ruiz, J. M.; Moreno, A.; Rondón, D.; Viedma, C.; Zauscher, F. Teaching Protein Crystallization by the Gel Acupuncture Method. April, 442–446.
Owen, W. G.; Jakubowski, H. V. The Teaching of Biochemistry: An Innovative Course Sequence Based on the Logic of Chemistry. June, 734–736.

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Padilla, S. A.; Pandey, S.; McHale, M. E.; Horton, A. M.; Trufant, A. L.; De La Sancha, N. U.; Vela, E.; Acree, W. E. Kinetics-Based Indirect Spectrophotometric Method for Simultaneous Determination of MnO^{4-} and $Cr_2O_7^{2-}$: A Modern Instrumental Analysis Laboratory Experiment. April, 450–452.
Padolik, P.; Sprague, E. D.; Voorhees, R.; McKenzie, P.; Alexander, J. J. MeasureNet—Electronic Measurement Network for the Freshman Chemistry Laboratory. (NSF) July, 859.
Palacios, J. C.; Cintas, P. The Clemmensen Reduction. (LTE) August, 938.

Palmer, W. P. Anniversaries 1998. (Correction) June, 658.
Pandey, S.; McHale, M. E.; Coym, K. S.; Acree, W. E. Bilinear Regression Analysis as a Means To Reduce Matrix Effects in Simultaneous Spectrophotometric Determination of Cr(III) and Co(II): A Quantitative Analysis Laboratory Experiment. July, 878–880.
Pandey, S.; McHale, M. E.; Horton, A. M.; Padilla, S. A.; Trufant, A. L.; De La Sancha, N. U.; Vela, E.; Acree, W. E. Kinetics-Based Indirect Spectrophotometric Method for Simultaneous Determination of MnO^{4-} and $Cr_2O_7^{2-}$: A Modern Instrumental Analysis Laboratory Experiment. April, 450–452.
Pandita, S.; Goyal, S. An Efficient Microscale Procedure for the Synthesis of Aspirin. (ML) June, 770.
Parmentier, L. E.; Lisensky, G. C.; Spencer, B. A Guided Inquiry Approach to NMR Spectroscopy. April, 470–471.
Parraguez, L.; Victoriano, L. I.; Carbacho, H. V. Characterization of Metastable Products from the Reaction of Copper(II) Bromide and Tetramethylthiuram Sulfide: An Undergraduate Project Involving Two Unknown Metal Complexes and an Unexpected Pattern of Reactivity. October, 1295–1297.
Patterson, I. L.; Wright, M. R.; Harris, K. D. Non-Ideality and Ion Association in Aqueous Electrolyte Solutions: Overview and a Simple Experimental Approach. March, 352–357.
Payne, A.; Seidman, K. Determination of Heat Capacities of Liquids with Time Resolved Thermal Lens Calorimetry: A More Accurate Procedure. July, 897–900.
Peace, G. E.; Landis, C. R.; Scharberg, M. A.; Branz, S.; Spencer, J. N.; Ricci, R. W.; Zumdahl, S. A.; Shaw, D. The New Traditions Consortium: Shifting from a Faculty-Centered Paradigm to a Student-Centered Paradigm. (NSF) June, 741–744.
Peckham, G. D. The Electromotive Series and Other Non-Absolute Scales. (AA) January, 49–50.
Peckham, G. D. Vapor Pressure Lowering by Nonvolatile Solutes. June, 787.
Pedrosa, M. R.; Arnáiz, F. J. Lead Globules. (TD) November, 1431–1432.
Penberthy, D. L.; Wright, J. C.; Millar, S. B.; Koscuik, S. A.; Williams, P. H.; Wampold, B. E. A Novel Strategy for Assessing the Effects of Curriculum Reform on Student Competence. August, 986–992.
Pérez-Ortín, J. E.; del Olmo, M.; Aranda, A.; Tordera, V. Detection of Non-B-DNA Secondary Structures by S1 Nuclease Digestion. (CIB) June, 762–765.
Perone, S. P.; Pesek, J.; Stone, C.; Englert, P. Transforming Traditional Sophomore Quant into a Course on Modern Analytical Science. November, 1444–1452.
Perrine, D. M.; Sabanayagam, N. R.; Reynolds, K. J. Synthesis of NMP, a Fluoxetine (Prozac) Precursor, in the Introductory Organic Laboratory. October, 1266.
Perrine, D. M. Synthesis of a Lactone. (LTE) July, 803.
Pesek, J.; Perone, S. P.; Stone, C.; Englert, P. Transforming Traditional Sophomore Quant into a Course on Modern Analytical Science. November, 1444–1452.
Peterman, K. E.; Lentz, K.; Duncan, J. A ^{19}F NMR Study of Enzyme Activity. October, 1283–1284.
Pettitt, B. A. The Morse Oscillator and Second-Order Perturbation Theory. September, 1170–1171.
Phanstiel, O.; Dueno, E.; Wang, Q. X. Synthesis of Exotic Soaps in the Chemistry Laboratory. May, 612–614.
Phillips, D. A. A Cooperative Approach to Chemical Education. (ECSA) June, 688–690.
Phillips, D. N.; Dunn, J. G. Introducing Second Year Chemistry Students to Research Work through Mini-Projects. July, 866–869.
Phillips, D. N.; Dunn, J. G.; Kagi, R. I. Developing Professional Skills in a Third-Year Undergraduate Chemistry Course Offered in Western Australia. October, 1313–1316.
Piepgrass, K. W. Audience-Appropriate Analogies: Collision Theory. (AA) June, 724.
Pierce, R. E.; Williams, K. R. The Analysis of Orange Oil and the Aqueous Solubility of *d*-Limonene: Two Complementary Gas Chromatography Experiments. February, 223–226.
Pierson, K. M.; Cousins, K. R. A Simplified Method for the Microscale Extraction of Pigments from Spinach. (ML) October, 1268–1269.
Pignolet, L. H.; Waldman, A. S.; Schechinger, L.; Govindarajoo, G.; Nowick, J. S. The Alginate Demonstration: Polymers, Food Science, and Ion Exchange. (TD) November, 1430–1431.
Pijem, J.; Arce, J.; Betancourt-Perez, R.; Rivera, Y. The Reaction of a Food Colorant with Sodium Hypochlorite: A Student-Designed Kinetics Experiment. September, 1142–1144.
Pike, C. F.; Higginbotham, C.; Rice, J. K. Spectroscopy in Sol-Gel Matrices: An Open-Ended Laboratory Experience for Upper Level Undergraduates. April, 461–464.
Pike, R. M.; Ibanez, J. G.; Singh, M. M.; Szafran, Z. Laboratory Experiments on Electrochemical Remediation of the Environment Part 3: Microscale Electrokinetic Processing of Soils. (ML) May, 634–635.
Pike, R. M.; Singh, M. M.; McGowan, C.; Szafran, Z. A Modified Microburet for Microscale Titration. (ML) March, 371.
Pile, D. L.; Benjamin, A. S.; Lackner, K. S.; Wendt, C. H.; Butt, D. P. A Precise Method for Determining the CO_2 Content of Carbonate Materials. December, 1610–1614.
Pind, N.; Christensen, J. K.; Høyer, B.; Kryger, L.; Kong, L. S. Sulfides in the Anaerobic Environment: The Determination of Hydrogen Sulfide and Acid-Soluble Metallic Sulfides in Sea-Floor Sediment. December, 1605–1608.
Pine, S.; Archer, R. D.; Kaesz, H. D. Reforming the General Chemistry Textbook. (LTE) January, 30.
Pinto, G. Using Balls from Different Sports To Model the Variation of Atomic Sizes. (AA) June, 725–726.
Ponti, A.; Bressanini, D. Angular Momentum and the Two-Dimensional Free Particle. July, 916–917.
Pope, S. R.; Tolleson, T. D.; Williams, R. J.; Underhill, R. D.; Deal, S. T. Working with Enzymes—Where Is Lactose Digested? An Enzyme Assay for Nutritional Biochemistry Laboratories. June, 761.
Power, G. P.; Drok, K. J.; Ritchie, I. M. A Simple Electrochemical Approach to Heterogeneous Reaction Kinetics. September, 1145–1149.
Proctor, J. K.; Donlin, M. J.; Frey, R. F.; Putnam, C.; Bashkin, J. K. Analysis of Iron in Ferritin, the Iron-Storage Protein: A General Chemistry Experiment. April, 437–441.
Proust, A.; Jullien, L.; Le Menn, J. How Does the Gibbs Free Energy Evolve in a System Undergoing Coupled Competitive Reactions? February, 194–199.
Pryor, B. A.; Van Dyke, D. A.; Smith, P. G.; Topp, M. R. Nanosecond Time-Resolved Fluorescence Spectroscopy in the Physical Chemistry Laboratory: Formation of the Pyrene Excimer in Solution. May, 615–620.
Puglisi, C.; Ciliberto, E.; Spoto, G.; Matteini, M. A Scientific Approach to Cultural Heritage Preservation: A Case Study of Vandalistic Acts on Important Roman Mosaics. October, 1302–1306.
Pulliam, E.; Bare, W. D.; Bradley, T. An Improved Method for Students' Flame Tests in Qualitative Analysis. April, 459.
Pushkin, D. B. Introductory Students, Conceptual Understanding, and Algorithmic Success. July, 809–810.
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Ragsdale, R. O.; Vanderhooft, J. C.; Zipp, A. P. Small-Scale Kinetic Study of the Catalyzed Decomposition of Hydrogen Peroxide. (ML) February, 215–216.
Ramachandran, B. R.; Halpern, A. M. An Experiment in Electronic Spectroscopy: Information Enhancement Using Second Derivative Analysis. February, 234–237.
Ramaley, L.; Guy, R. D.; Wentzell, P. D. An Experiment in the Sampling of Solids for Chemical Analysis. August, 1028–1033.
Ramette, R. W. Buffers Plus. (JCE SOFT) November, 1504.
Ramette, R. W. Has Chemical Education Reached Equilibrium? (LTE) February, 138.
Ramsey, T.; Henderson, G.; Tennis, R. Excited State Lifetimes and Bimolecular Quenching of Iodine Vapor. September, 1139–1142.
Rasp, S. L. Toward More Performance Evaluation in Chemistry. (VIEW) January, 64–66.
Ravera, M.; Mocellin, E.; Russell, R. The Microscale Synthesis and Electrochemistry of Low-Valent Mononuclear Complexes $(\eta^5\text{-}C_5H_5)Fe(CO)_2X$ (X = I, Br, Cl). (ML) June, 773–775.
Razquín, P.; Inda, L. A.; Lampreave, F.; Alava, M. A.; Calvo, M. Rapid, Sensitive, Enzyme-Immunodotting Assay for Detecting Cow Milk Adulteration in Sheep Milk: A Modern Laboratory Project. December, 1618–1621.
Reeves, J. H. Reforming the General Chemistry Textbook. (LTE) January, 30.
Reeves, P. C.; Chaney, C. P. A Strategy for Incorporating ^{13}C NMR into the Organic Chemistry Lecture and Laboratory Courses. August, 1006–1007.
Reynolds, K. J.; Perrine, D. M.; Sabanayagam, N. R. Synthesis of NMP, a Fluoxetine (Prozac) Precursor, in the Introductory Organic Laboratory. October, 1266.
Ricci, R. W.; Landis, C. R.; Peace, G. E.; Scharberg, M. A.; Branz, S.; Spencer, J. N.; Zumdahl, S. A.; Shaw, D. The New Traditions Consortium: Shifting from a Faculty-Centered Paradigm to a Student-Centered Paradigm. (NSF) June, 741–744.
Rice, J. K.; Higginbotham, C.; Pike, C. F. Spectroscopy in Sol-Gel Matrices: An Open-Ended Laboratory Experience for Upper Level Undergraduates. April, 461–464.
Rich, R. L. Boiling Point and Molecular Weight. (LTE) April, 394.
Richman, R. M. Detection of Catalysis by Taste. (TD) March, 315.
Richman, R. M. In Defense of Quantum Numbers. May, 536.
Richmond, T. G.; Bennett, B. K. An Inexpensive, Disposable Cannula Filtration Device. (CET) August, 1034.

Rieck, D. F. Providing Direction and Motivation for Students To Review Topics from Previous Chemistry Classes. July, 850.
Rigeman, S. A. The Convergent Evolution of a Chemistry Project: Using Laboratory Posters as a Platform for Web Page Construction. (VIEW) June, 727–730.
Riley, J. T.; Dahl, D. B.; Green, T. K. Chromatographic Separation Techniques for Undergraduates. (NSF) October, 1209.
Rinehart, F. P.; Sattar, S. Diffusion of CsCl in Aqueous Glycerol Measured by Laser Refraction: A Physical Chemistry Laboratory Experiment. September, 1136–1138.
Rioux, F.; DeKock, R. L. The Crucial Role of Kinetic Energy in Interpreting Ionization Energies. May, 537–539.
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Ritchie, I. M.; Drok, K. J.; Power, G. P. A Simple Electrochemical Approach to Heterogeneous Reaction Kinetics. September, 1145–1149.
Rivera, Y.; Arce, J.; Betancourt-Perez, R.; Pijem, J. The Reaction of a Food Colorant with Sodium Hypochlorite: A Student-Designed Kinetics Experiment. September, 1142–1144.
Roat, R. M.; Farrell, N.; Ross, P. Applications of Inorganic Chemistry in Biology: An Interdisciplinary Graduate Course. (CCD) June, 739–740.
Robinson, W. R. A View of the Science Education Research Literature: Visual Aids in Laboratory Manuals Improve Comprehension. (ROJ) March, 282–283.
Robinson, W. R. An Alternative Framework for Chemical Bonding. (ROJ) September, 1074–1075.
Robinson, W. R. New Paradigms, New Technology, New Texts. December, 1528.
Robinson, W. R.; Nurrenbern, S. C. Conceptual Questions and Challenge Problems. (JCE Online) November, 1502–1503.
Rodríguez, A.; McDevitt, V. L.; Williams, K. R. Analysis of Soft Drinks: UV Spectrophotometry, Liquid Chromatography, and Capillary Electrophoresis. May, 625–629.
Rodygin, M. Y.; Rodygina, I. V. A Course in Early Chemistry for Undergraduates: A Speculative Experiment in Historical Modeling at the Donetsk State University. October, 1320–1322.
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Rondón, D.; García-Ruiz, J. M.; Moreno, A.; Otálora, F.; Viedma, C.; Zauscher, F. Teaching Protein Crystallization by the Gel Acupuncture Method. April, 442–446.
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Ross, P.; Farrell, N.; Roat, R. M. Applications of Inorganic Chemistry in Biology: An Interdisciplinary Graduate Course. (CCD) June, 739–740.
Rossetti, R.; Kettle, S. F.; Diana, E.; Stanghellini, P. L. Bis(dicarbonyl-π-cyclopentadienyliron)—A Solid-State Vibrational Spectroscopic Lesson. October, 1333–1338.
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Rowlett, R.; Bering, C. L.; Kuhns, J. J. Purification of Bovine Carbonic Anhydrase by Affinity Chromatography: An Undergraduate Biochemistry Laboratory Experiment. August, 1021–1024.
Rudman, R. Temperature Scale Conversion as a Linear Equation: True Unit Conversion vs Zero-Offset Correction. December, 1646–1647.
Rupprechter, G.; Somorjai, G. A. The Flexible Surface: Molecular Studies Explain the Extraordinary Diversity of Surface Chemical Properties. February, 161–176.
Russell, R.; Mocellin, E.; Ravera, M. The Microscale Synthesis and Electrochemistry of Low-Valent Mononuclear Complexes (η^5-C_5H_5)Fe(CO)$_3$X (X = I, Br, Cl). (ML) June, 773–775.
Russo, R. The Perfect Text. February, 141–142.
Russo, T. J. A Three-Cent Reusable Craig Tube. (ML) July, 880.
Rustad, D. Demystifying Introductory Chemistry. (LTE) May, 542.
Rustad, D. Precision and Accuracy. (LTE) August, 970.
Rutledge, S.; Kenkel, J.; Kelter, P. B. The DuPont Conference: Implications for the Chemical Technology Curriculum. (2YC$_3$) May, 531–534.
Ruttledge, T. R. Organic Chemistry Lab as a Research Experience. December, 1575–1577.
Rybolt, T. R.; Waddell, T. G. The Chemical Adventures of Sherlock Holmes: The Baker Street Burning. April, 484–486.
Rytting, J. H.; Schowen, R. L. Issues in Scientific Integrity: A Practical Course for Graduate Students in the Chemical Sciences. October, 1317–1320.

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Saiz, E.; Tarazona, M. P. Models for Models: An Introduction to Polymer Models Employing Simple Analogies. November, 1425–1429.
Salter, C.; Foresman, J. B. Naphthalene and Azulene I: Semimicro Bomb Calorimetry and Quantum Mechanical Calculations. October, 1341–1345.
Samoshin, V. V. Orbital Models Made of Plastic Soda Bottles. (AA) August, 985.
Samulski, E. T. Reforming the General Chemistry Textbook. (LTE) January, 10.
Sanger, M. J.; Greenbowe, T. J. The ChemCom Curriculum. (LTE) June, 691–693.
Sarquis, J. L. Secretary's Report, Fall 1998. (ACS) August, 954.
Sattar, S.; Rinehart, F. P. Diffusion of CsCl in Aqueous Glycerol Measured by Laser Refraction: A Physical Chemistry Laboratory Experiment. September, 1136–1138.
Sauder, D.; Towns, M. H.; Kreke, K.; Stout, R.; Long, G.; Zielinski, T. J. An Assessment of a Physical Chemistry Online Activity. (CER) December, 1653–1657.
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Scalettar, B. A.; Abney, J. R. Saving Your Students' Skin. Undergraduate Experiments That Probe UV Protection by Sunscreens and Sunglasses. June, 757–760.
Scerri, E. R. How Good Is the Quantum Mechanical Explanation of the Periodic System? November, 1384–1385.
Schaeffer, R. W. SnI_2 and SnI_4. (LTE) November, 1386–1387.
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Schechinger, L.; Waldman, A. S.; Govindarajoo, G.; Nowick, J. S.; Pignolet, L. H. The Alginate Demonstration: Polymers, Food Science, and Ion Exchange. (TD) November, 1430–1431.
Schmidt, B. F.; O'Brien, J. F. REDUCE: A Program for Reducing Reducible Representations. October, 1338.
Schmuckler, J.; Hilosky, A.; Sutman, F. Is Laboratory Based Instruction in Beginning College-Level Chemistry Worth the Effort and Expense? January, 100–104.
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Schultz, E. Dice-Shaking as an Analogy for Radioactive Decay and First-Order Kinetics. (LTE) April, 413.
Schultz, E. Has Chemical Education Reached Equilibrium? (LTE) February, 138–139.
Schwartz, A. M. Chemistry at the Art/Archeology Interface. (LTE) July, 829.
Seaborg, G. T. A Long Career in Chemistry and Education. December, 1520.
Seaborg, G. T. Viewpoints: Chemists on Chemistry. January, 13–15.
Šeffík, J. Is the Reaction Equilibrium Composition in Non-Ideal Mixtures Uniquely Determined by the Initial Composition? May, 587–588.
Seidman, K.; Payne, A. Determination of Heat Capacities of Liquids with Time Resolved Thermal Lens Calorimetry: A More Accurate Procedure. July, 897–900.
Seita, J. F.; de Zea Bermudez, V.; de Almeida, P. P. How To Learn and Have Fun with Poly(Vinyl Alcohol) and White Glue. November, 1410–1418.
Semiat, R.; Grinbaum, B. To Teach Chemists Engineering. May, 583–586.
Senning, A. Circular Arguments or The Culture of Chemistry. (LTE) November, 1385.
Sesi, N. N.; Borer, M. W.; Starn, T. K.; Hieftje, G. M. A Standardized Approach to Collecting and Calculating Noise Amplitude Spectra. (TICI) June, 788–792.
Ševčík, P.; Adamčíková, L. The Blue Bottle Experiment—Simple Demonstration of Self-Organization. (OPD) December, 1580.
Shabestary, N.; Khazaeli, S.; Hickman, R. Phase Transfer Catalytic Reactions: A Physical Chemistry Laboratory Experiment. November, 1470–1472.
Shalhoub, G. M.; Zielinski, T. J. Introduction to Franck–Condon Factors: FranckCondon-Background.mcd. (MCAD) September, 1191–1192.
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Sharon, J. B. Oxygen vs Dioxygen: Diatomic/Monoatomic Usage. (LTE) September, 1089.
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Sheridan, J. B.; Ni, Y.; Manners, I.; Oakley, R. T. Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. June, 766–768.
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Silverstein, T. P. The Real Reason Why Oil and Water Don't Mix. January, 116–118.
Silverstein, T. P. Why Do Alcoholic Beverages Have "Legs"? (AA) June, 723–724.
Silverstein, T. P.; Zhang, Y. Sugar Dehydration without Sulfuric Acid: No More Choking Fumes in the Classroom! (TD) June, 748–749.
Simoiu, L.; Voiculescu, V.; Niac, G. Analysis of Chemical Reactions by Means of Isoconversion Curves: K_c = Constant. February, 203–206.
Simoyi, R. H.; Bond, R. A.; Martincigh, B. S.; Mika, J. R. The Quasi-Steady-State Approximation: Numerical Validation. September, 1158–1165.
Singh, B. R.; Deck, J. C. Etiquette in Departmental Seminars. July, 846–848.
Singh, M. M.; Ibanez, J. G.; Pike, R. M.; Szafran, Z. Laboratory Experiments on Electrochemical Remediation of the Environment Part 3: Microscale Electrokinetic Processing of Soils. (ML) May, 634–635.
Singh, M. M.; Ibanez, J. G.; Szafran, Z. Laboratory Experiments on the Electrochemical Remediation of Environment. Part 4: Color Removal of Simulated Wastewater by Electrocoagulation-Electroflotation. (ML) August, 1040–1041.
Singh, M. M.; McGowan, C.; Szafran, Z.; Pike, R. M. A Modified Microburet for Microscale Titration. (ML) March, 371.
Singh, R.; Gupta, H. O. Low-Cost Science Teaching Equipment for Visually Impaired Children. (CET) May, 610–612.
Sipos, L. Inhibition of Sulfite Oxidation by Phenols: Screening Antioxidant Behavior with a Clark Oxygen Sensor. December, 1603–1605.
Situmorang, M.; Lee, M. T.; Witzeman, K.; Heineman, W. R. Liquid Chromatography with Electrochemical Detection (LC-EC): An Experiment Using 4-Aminophenol. August, 1035–1038.
Smestad, G. P. Anthocyanins. (LTE) October, 1203.
Smestad, G. P.; Grätzel, M. Demonstrating Electron Transfer and Nanotechnology: A Natural Dye-Sensitized Nanocrystalline Energy Converter. June, 752–756.
Smist, J.; Wildeman, T. R.; Torre, F. Boston ACS Meeting, Chemical Education Program. (ACS) November, 1381–1382.
Smith, A. L.; Thorne, E. J.; Nadler, W. An Inexpensive Detector for Gas Chromatography. September, 1129–1132.
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Smith, S. G. Technology and Teaching. December, 1529.
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Sokolik, C. W. A Maple Program That Illustrates the Effect of pH on Peptide Charge. (CBB) November, 1500–1502.
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Sone, K.; Wakabayashi, F.; Hamada, K. CD-ROM Spectroscope: A Simple and Inexpensive Tool for Classroom Demonstrations on Chemical Spectroscopy. (CET) December, 1569–1570.
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Sorkhabi, O.; Jackson, W. M.; Daizadeh, I. Cometary Spectroscopy for Advanced Undergraduates. (ACL) November, 1472–1476.
Sorkhabi, O.; Jackson, W. M.; Daizadeh, I. Extending the Diatomic FTIR Experiment: A Computational Exercise To Calculate Potential Energy Curves. February, 238–240.
Spencer, B.; Anthony, S.; Mernitz, H.; Gutwill, J.; Kegley, S. E.; Molinaro, M. The ChemLinks and ModularCHEM Consortia: Using Active and Context-Based Learning To Teach Students How Chemistry Is Actually Done. (NSF) March, 322–324.
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Steehler, J. K. Should Advanced Instruments Be Used in Introductory Courses? March, 274–275.
Steel, C.; Henchman, M. Design and Operation of a Portable Quadrupole Mass Spectrometer for the Undergraduate Curriculum. August, 1042–1049.
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Steffel, M. J. Re-blue-ing Blue Litmus Paper. February, 183.
Stevens, R. E.; Billingsley, K. C. Production, Extraction, and Qualitative Testing of Penicillin: A Biochemistry Experiment for Health Science Chemistry Courses. October, 1264–1265.
Stock, J. T. Wilder Bancroft's Study of Oxidant–Reductant Cells. July, 844–846.
Stoll, S. X-ray Diffraction Facility for Undergraduate Teaching and Research in Chemistry and Physics. (NSF) November, 1372.
Stolzberg, R. J. Do New Pennies Lose Their Shells? Hypothesis Testing in the Sophomore Analytical Chemistry Laboratory. November, 1453–1455.
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Stout, R.; Towns, M. H.; Kreke, K.; Sauder, D.; Long, G.; Zielinski, T. J. An Assessment of a Physical Chemistry Online Activity. (CER) December, 1653–1657.
Stroebel, G. G.; Myers, S. A. Introductory Electrochemistry for Kids—Food for Thought, and Human Potential. (CFK) February, 178–180.
Subramaniam, R.; Chia, L. S.; Goh, N. K. Masses of the Fundamental Particles in the Bound State. (LTE) April, 410.
Sudlow, K. P.; Woolf, A. A. What Is the Geometry at Trigonal Nitrogen? January, 108–110.
Susskind, T. Y. Community Colleges and the Teaching of Chemistry. December, 1548.
Sutcliffe, B.; Doggett, G. A Modern Approach to *L–S* Coupling in the Theory of Atomic Spectra. January, 110–114.
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Sykes, R. M. Precision and Accuracy. (LTE) August, 970.
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Chemical Puzzle. Spencer, H. E.; Kusdra, L. April, 487–488.
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Covalent and Ionic Molecules: Why Are BeF_2 and AlF_3 High Melting Point Solids whereas BF_3 and SiF_4 Are Gases? Gillespie, R. J. July, 923–925.
Demonstrations on Paramagnetism with an Electronic Balance. (F&R) Cortel, A. January, 61–63.
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Inexpensive, Disposable Cannula Filtration Device. (CET) Bennett, B. K.; Richmond, T. G. August, 1034.
Inhibition of Sulfite Oxidation by Phenols: Screening Antioxidant Behavior with a Clark Oxygen Sensor. Sipos, L. December, 1603–1605.
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Microscale Synthesis of $UO_2Cl_2(OPPh_3)_2$. Arnáiz, F. J.; Miranda, M. J. November, 1457–1458.
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Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. Ni, Y.; Manners, I.; Sheridan, J. B.; Oakley, R. T. June, 766–768.
Synthesis of Some Cobaloxime Derivatives: A Demonstration of "Umpolung" in the Reactivity of an Organometallic Complex. Jameson, D. L.; Grzybowski, J. J.; Hammels, D. E.; Castellano, R. K.; Hoke, M. E.; Freed, K.; Basquill, S.; Mendel, A.; Shoemaker, W. J. April, 447–450.

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Characterization of Metastable Products from the Reaction of Copper(II) Bromide and Tetramethylthiuram Sulfide: An Undergraduate Project Involving Two Unknown Metal Complexes and an Unexpected Pattern of Reactivity. Victoriano, L. I.; Carbacho, H. V.; Parraguez, L. October, 1295–1297.
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Three-Cent Reusable Craig Tube. (ML) Russo, T. J. July, 880.
Use of a Titanium Metallocene as a Colorimetric Indicator for Learning Inert Atmosphere Techniques. Burgmayer, S. J. April, 460.

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Example of a Guided-Inquiry, Collaborative Physical Chemistry Laboratory Course. Deckert, A. A.; Nestor, L. P.; DiLullo, D. July, 860–863.
Guided Inquiry Approach to NMR Spectroscopy. Parmentier, L. E.; Lisensky, G. C.; Spencer, B. April, 470–471.
Introducing Second Year Chemistry Students to Research Work through Mini-Projects. Dunn, J. G.; Phillips, D. N. July, 866–869.
More Experiments in the Penny Lab. (LTE) Leenson, I. A. November, 1362.
Spectroscopy in Sol-Gel Matrices: An Open-Ended Laboratory Experience for Upper Level Undergraduates. Higginbotham, C.; Pike, C. F.; Rice, J. K. April, 461–464.
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Analysis of Soft Drinks: UV Spectrophotometry, Liquid Chromatography, and Capillary Electrophoresis. McDevitt, V. L.; Rodríguez, A.; Williams, K. R. May, 625–629.
Automated Protein Assay Using Flow Injection Analysis. Wolfe, C. A.; Oates, M. R.; Hage, D. S. August, 1025–1028.
Beer's Law: The Real Hazards. (LTE) Logan, S. R. December, 1514.
Beer's Law: The Real Hazards. (LTE) Muyskens, M. A. December, 1514–1515.
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Crystallographic Structure Determination: An Experiment for Organic Analysis and Other Nontraditional Venues. Hunter, A. D. October, 1297–1299.
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Nonlinear Least-Squares Curve Fitting with Microsoft Excel Solver. (CBB) Harris, D. C. January, 119–121.
Nonlinear Optical Instrumentation. (Waters Symposium) Bloembergen, N. May, 555–558.
Quantitative HPLC Analysis of a Psychotherapeutic Medication: Simultaneous Determination of Amitriptyline Hydrochloride and Perphenazine. Ferguson, G. K. December, 1615–1618.
Simple Electrochemical Approach to Heterogeneous Reaction Kinetics. Drok, K. J.; Ritchie, I. M.; Power, G. P. September, 1145–1149.
Spontaneous Hydrolysis of Methyl Chloroformate: A Physical Chemistry Experiment for Teaching Techniques in Chemical Kinetics. El Seoud, O. A.; Takashima, K. December, 1625–1627.
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Understanding the Quadrupole Mass Filter through Computer Simulation. Steel, C.; Henchman, M. August, 1049–1054.
Unique Qualitative GC Experiment for an Undergraduate Instrumental Methods Course Using Selective Photoionization Detectors. Notestein, J.; Hélias, N.; Wentworth, W. E.; Dojahn, J. G.; Chen, E. C.; Stearns, S. D. March, 360–364.
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Using Mathcad To Teach Instrumental Techniques. (CBB) Van Bramer, S. E. March, 375–378.

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Sir Humphry Davy and Frankenstein. (IC) Thoman, C. J. April, 495–496.

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Intermolecular Forces in Introductory Chemistry Studied by Gas Chromatography, Computer Models, and Viscometry. Wedvik, J. C.; McManaman, C.; Anderson, J. S.; Carroll, M. K. July, 885–888.
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Simple Demonstration of How Intermolecular Forces Make DNA Helical. (TD) Bruist, M. F. January, 53–55.
Solving the Mystery of Fading Fingerprints with London Dispersion Forces. (AA) Kimbrough, D. R.; DeLorenzo, R. October, 1300–1301.
Why Do Alcoholic Beverages Have "Legs"? (AA) Silverstein, T. P. June, 723–724.

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Assessment of a Physical Chemistry Online Activity. (CER) Towns, M. H.; Kreke, K.; Sauder, D.; Stout, R.; Long, G.; Zielinski, T. J. December, 1653–1657.
Award Data Searches at the NSF Web Site. Wink, D. J. June, 677–678.
Collaborative Distance Education: The Iowa Chemistry Education Alliance. Burke, K. A.; Greenbowe, T. J. October, 1308–1312.

Convergent Evolution of a Chemistry Project: Using Laboratory Posters as a Platform for Web Page Construction. (VIEW) Rigeman, S. A. June, 727–730.
Delivering a Chemistry Course over the Internet. (TECH) Liu, D.; Walter, L. J.; Brooks, D. W. January, 123–125.
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Balancing Organic Reactions. (LTE) Woolf, A. A. August, 938.
Best of Chem 13 News. (ROJ) Thorsen, K. November, 1368–1369.
CD Light: An Introduction to Spectroscopy. (JCE Classroom Activity) December, 1568.
CD-ROM Spectroscope: A Simple and Inexpensive Tool for Classroom Demonstrations on Chemical Spectroscopy. (CET) Wakabayashi, F.; Hamada, K.; Sone, K. December, 1569–1570.
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Intermolecular Forces in Introductory Chemistry Studied by Gas Chromatography, Computer Models, and Viscometry. Wedvik, J. C.; McManaman, C.; Anderson, J. S.; Carroll, M. K. July, 885–888.
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Lemon Cells Revisited—The Lemon-Powered Calculator. Swartling, D. J.; Morgan, C. February, 181–182.
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Low-Cost Science Teaching Equipment for Visually Impaired Children. (CET) Gupta, H. O.; Singh, R. May, 610–612.
Mechanical Analogue for Chemical Potential, Extent of Reaction, and the Gibbs Energy. Glass, S. V.; DeKock, R. L. February, 190–193.
Modeling Nuclear Decay: A Point of Integration between Chemistry and Mathematics. (2AP) Crippen, K. J.; Curtright, R. D. November, 1434–1436.
New Traditions Consortium: Shifting from a Faculty-Centered Paradigm to a Student-Centered Paradigm. (NSF) Landis, C. R.; Peace, G. E.; Scharberg, M. A.; Branz, S.; Spencer, J. N.; Ricci, R. W.; Zumdahl, S. A.; Shaw, D. June, 741–744.
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Simple Method To Demonstrate the Enzymatic Production of Hydrogen from Sugar. Hershlag, N.; Hurley, L.; Woodward, J. October, 1270–1274.
Simple, Transparent Fume Hood. Fredericks, J. October, 1299.
Solving the Mystery of Fading Fingerprints with London Dispersion Forces. (AA) Kimbrough, D. R.; DeLorenzo, R. October, 1300–1301.
Spatial Perception Skills of Chemistry Students. (CER) Coleman, S. L.; Gotch, A. J. February, 206–209.
Spring Shock! Impact of Spring Snowmelt on Lakes and Streams. (JCE Classroom Activity) Halstead, J. A. April, 400.
Sugar Dehydration without Sulfuric Acid: No More Choking Fumes in the Classroom! (TD) Silverstein, T. P.; Zhang, Y. June, 748–749.
Synthesis of Aspirin: A General Chemistry Experiment. Olmsted, J. A. October, 1261–1263.
Synthesis of Exotic Soaps in the Chemistry Laboratory. Phanstiel, O.; Dueno, E.; Wang, Q. X. May, 612–614.
Teaching College General Chemistry: Techniques Designed To Communicate a Conceptual Framework. (CCD) Duchovic, R. J. July, 856–857.
Temperature Scale Conversion as a Linear Equation: True Unit Conversion vs Zero-Offset Correction. Rudman, R. December, 1646–1647.
Thermal Physics (and Some Chemistry) of the Atmosphere. (AA) Lower, S. K. July, 837–840.
To Teach Chemists Engineering. Grinbaum, B.; Semiat, R. May, 583–586.
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Using Bottled Water: A Problem-Solving Exercise in Chemical Identification. Myers, R. L. December, 1585–1587.
Using Chemistry and Color To Analyze Household Products: A 10-12 Hour Laboratory Project at the General Chemistry Level. Bosma, W. B. February, 214–215.
Using Interactive Anonymous Quizzes in Large Lecture General Chemistry Courses. Holme, T. A. May, 574–576.
Vapor Pressure Lowering by Nonvolatile Solutes. Peckham, G. D. June, 787.
What's Gluep? Characterizing a Cross-Linked Polymer. (JCE Classroom Activity) November, 1432.
Why Do Alcoholic Beverages Have "Legs"? (AA) Silverstein, T. P. June, 723–724.
Why Does Helium Have 92% of the Lifting Power of Hydrogen if It Has Twice the Density? Ball, D. W. June, 726.
Why Is Bismuth Subchloride Soluble in Acid. (LTE) Ackerman, M. N. May, 523.
Why the Arrhenius Equation Is Always in the "Exponentially Increasing" Region in Chemical Kinetic Studies. Carroll, H. F. September, 1186–1187.

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Alginate Demonstration: Polymers, Food Science, and Ion Exchange. (TD) Waldman, A. S.; Schechinger, L.; Govindarajoo, G.; Nowick, J. S.; Pignolet, L. H. November, 1430–1431.
Potential Functions in Chemical Thermodynamics. Araujo, R. J. November, 1490–1493.

IR Spectroscopy

Bis(dicarbonyl-π-cyclopentadienyliron)—A Solid-State Vibrational Spectroscopic Lesson. Kettle, S. F.; Diana, E.; Rossetti, R.; Stanghellini, P. L. October, 1333–1338.
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Extending the Diatomic FTIR Experiment: A Computational Exercise To Calculate Potential Energy Curves. Sorkhabi, O.; Jackson, W. M.; Daizadeh, I. February, 238–240.
Grignard Synthesis of Various Tertiary Alcohols. Everett, T. S. January, 86–87.
Incorporating Organic Name Reactions and Omitting Qualitative Analysis in an Unknown Identification Experiment. Castro, C.; Karney, W. April, 472–475.
Infrared Spectroscopy Determination of Lead Binding to Ethylenediaminotetraacetic Acid. (ACL) Dragan, S.; Fitch, A. August, 1018–1021.
Low-Cost Auto-Stop Hydraulic Press for Making KBr Disc. Hon, P. May, 629.
REDUCE: A Program for Reducing Reducible Representations. O'Brien, J. F.; Schmidt, B. F. October, 1338.
Synthesis and Structure–Property Relationships in $(\eta^6\text{-Arene})Cr(CO)_3$ Chemistry: From Guided Experiments to Discovery Research. Hunter, A. D.; Bianconi, L. J.; DiMuzio, S. J.; Braho, D. L. July, 891–893.
Using Excel Solver: An Addendum to the HCl Infrared Spectrum Experiment. (CBB) Iannone, M. September, 1188–1189.
Using Mathcad To Teach Instrumental Techniques. (CBB) Van Bramer, S. E. March, 375–378.

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Charge It! An Activity with Electricity. (JCE Classroom Activity) January, 80.
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What's Gluep? Characterizing a Cross-Linked Polymer. (JCE Classroom Activity) November, 1432.

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Animated Vibrational Models of Triatomic Molecules. (JCE Online) Henderson, G.; Liberatore, C. June, 779.
Conceptual Questions and Challenge Problems. (JCE Online) Nurrenbern, S. C.; Robinson, W. R. November, 1502–1503.
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Journal Supplements Online. (JCE Online) Holmes, J. L. April, 510.
Mathcad in the Chemistry Curriculum. (JCE Online) Zielinski, T. J. September, 1189–1191.

JCE Software

Buffers Plus. (JCE SOFT) Ramette, R. W. November, 1504.
Chemistry Comes Alive!, Vol. 2: Abstract of Special Issue 21 on CD-ROM. (JCE SOFT) Jacobsen, J. J.; Moore, J. W. July, 927–928.
Flying over Atoms CD-ROM: Abstract of Special Issue 19. (JCE SOFT) Markham, J. R. February, 247–248.
G and S: Issue 9802W for Windows. (JCE SOFT) McNaught, I. J. May, 645.

General Chemistry Collection CD-ROM for Students: Abstract of Special Issue 16, 2nd Edition. (JCE SOFT) Holmes, J. L.; Gettys, N. S. April, 511–512.
Group Theory with Mathcad: Issue 9801MW for Mac OS and Windows. (JCE SOFT) Rioux, F. May, 644.
Journal of Chemical Education on CD-ROM, 1998. (JCE SOFT) December, 1664.
Prospectus. (JCE SOFT) Holmes, J. L.; Gettys, N. S. January, 127–128.
Solid State Resources CD-ROM: Abstract of Special Issue 12, 2nd Edition. (JCE SOFT) Lisensky, G. C.; Blackwell, J. M.; Ellis, A. B. October, 1351–1352.
Techniques in Organic Chemistry, Part 1: VHS Videotape; Abstract of Special Issue 20. (JCE SOFT) Browne, L. M.; Auclair, K. March, 383–384.
Techniques in Organic Chemistry, Part 2: Videotape; Abstract of Special Issue 22. (JCE SOFT) Browne, L. M.; Auclair, K. August, 1055–1056.

Journal History: A Synopsis of Our Past

Bell, J. A. Choices. December, 1549.
Howell, J. E. The *Journal* and High School Chemistry. December, 1546.
Kieffer, W. F. Watershed Years: 1955–1967. December, 1542.
Lagowski, J. J. The Texas Period: 1979–1996. December, 1545.
Lippincott, W. T. A Synopsis of Our Past: 1967–1979. December, 1543.
Susskind, T. Y. Community Colleges and the Teaching of Chemistry. December, 1548.

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This *Journal*'s Future. (Editorial) Moore, J. W. September, 1063.
Viewpoints: Chemists on Chemistry. Seaborg, G. T. January, 13–15.

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Analogy To Help Students Understand Reaction Orders. (AA) Marzzacco, C. J. April, 482.
Anatomy of Elementary Chemical Reactions. Alexander, A. J.; Zare, R. N. September, 1105–1118.
Audience-Appropriate Analogies: Collision Theory. (AA) Piepgrass, K. W. June, 724.
Blue Bottle Experiment—Simple Demonstration of Self-Organization. (OPD) Adamčíková, L.; Ševčík, P. December, 1580.
Blue Bottle Revisited. (LTE) Hile, L. September, 1067.
Blue Bottle Revisited. (LTE) Vandaveer, W. R.; Mosher, M. September, 1067.
Chemical Kinetics without Calculus. Novak, I. December, 1574–1575.
Chemistry from Telephone Numbers: The False Isokinetic Relationship. McBane, G. C. July, 919–922.
Chemistry Time: Factors Affecting the Rate of a Chemical Reaction. (JCE Classroom Activity) September, 1120.
Conceptualizing Kinetics with Curve Fitting. (CBB) Vitz, E. December, 1661–1663.
Correction to *J. Chem. Educ.* **1998**, *75*, 917-919. (Correction) Ball, D. W. November, 1387.
Dice-Shaking as an Analogy for Radioactive Decay and First-Order Kinetics. (LTE) Howald, R. April, 413.
Dice-Shaking as an Analogy for Radioactive Decay and First-Order Kinetics. (LTE) Schultz, E. April, 413.
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Excited State Lifetimes and Bimolecular Quenching of Iodine Vapor. Henderson, G.; Tennis, R.; Ramsey, T. September, 1139–1142.
Kinetic Demonstration of Intermolecular General Acid (GA) Catalysis in Thiolysis of 9-Anilinoacridine. Khan, M. N. May, 632–633.
Kinetics Experiment To Demonstrate the Role of a Catalyst in a Chemical Reaction: A Versatile Exercise for General or Physical Chemistry Students. Copper, C. L.; Koubek, E. January, 87–90.
Kinetics of Consecutive Reactions: First Reaction, First-Order; Second Reaction, Zeroth Order. Ball, D. W. July, 917–919.
Limiting Reagent and Kinetics: Social Implications and Malthus' Prediction. Holmes, L. H. August, 1004–1005.
Nanosecond Time-Resolved Fluorescence Spectroscopy in the Physical Chemistry Laboratory: Formation of the Pyrene Excimer in Solution. Van Dyke, D. A.; Pryor, B. A.; Smith, P. G.; Topp, M. R. May, 615–620.
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Quasi-Steady-State Approximation: Numerical Validation. Bond, R. A.; Martincigh, B. S.; Mika, J. R.; Simoyi, R. H. September, 1158–1165.
Reaction of a Food Colorant with Sodium Hypochlorite: A Student-Designed Kinetics Experiment. Arce, J.; Betancourt-Perez, R.; Rivera, Y.; Pijem, J. September, 1142–1144.
Rotational Barriers in Push–Pull Ethylenes: An Advanced Physical-Organic Project Including 2D EXSY and Computational Chemistry. Dwyer, T. J.; Norman, J. E.; Jasien, P. G. December, 1635–1640.
Simple Electrochemical Approach to Heterogeneous Reaction Kinetics. Drok, K. J.; Ritchie, I. M.; Power, G. P. September, 1145–1149.
Simple Method To Demonstrate the Enzymatic Production of Hydrogen from Sugar. Hershlag, N.; Hurley, I.; Woodward, J. October, 1270–1274.
Small-Scale Kinetic Study of the Catalyzed Decomposition of Hydrogen Peroxide. (ML) Ragsdale, R. O.; Vanderhooft, J. C.; Zipp, A. P. February, 215–216.
Spontaneous Hydrolysis of Methyl Chloroformate: A Physical Chemistry Experiment for Teaching Techniques in Chemical Kinetics. El Seoud, O. A.; Takashima, K. December, 1625–1627.
Student Experiment in Non-Isothermal Chemical Kinetics. Hodgson, S. C.; Ngeh, L. N.; Orbell, J. D.; Bigger, S. W. September, 1150–1153.
Use of a Reliable Homemade Dilatometer To Study the Kinetics of the Radical Chain Polymerization of PMMA: An Undergraduate Polymer Chemistry Laboratory Kinetics Experiment. Martín, O.; Mendicuti, F.; Tarazona, M. P. November, 1479–1481.
Use of a Spreadsheet To Simulate Enzyme Kinetics. (CBB) Bruist, M. F. March, 372–375.
Validity of the Quasi-Stationary-State Approximation in the Case of Two Successive Reversible First-Order Reactions. Viossat, V.; Ben-Aim, R. I. September, 1165–1169.
Why the Arrhenius Equation Is Always in the "Exponentially Increasing" Region in Chemical Kinetic Studies. Carroll, H. F. September, 1186–1187.

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Crystallographic Structure Determination: An Experiment for Organic Analysis and Other Nontraditional Venues. Hunter, A. D. October, 1297–1299.
Curve-Fitting Approach to Potentiometric Titration Using Spreadsheet. (CBB) Ma, N. L.; Tsang, C. W. January, 122–123.
Energy Profile for Rotation about the C-C Bond in Substituted Ethanes: A Multi-Part Experimental and Computational Project for the Physical Chemistry Laboratory. Erickson, L. E.; Morris, K. F. July, 900–906.
Experiment in Electronic Spectroscopy: Information Enhancement Using Second Derivative Analysis. Ramachandran, B. R.; Halpern, A. M. February, 234–237.
Integrating Computers into the First-Year Chemistry Laboratory: Application of Raoult's Law to a Two-Component System. (CBB) Viswanathan, R.; Horowitz, G. September, 1124–1125.
Maple Program That Illustrates the Effect of pH on Peptide Charge. (CBB) Sokolik, C. W. November, 1500–1502.
Nonlinear Least-Squares Curve Fitting with Microsoft Excel Solver. (CBB) Harris, D. C. January, 119–121.
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Teaching Computer Concepts to Undergraduate Chemists. (TECH) Haines, R. S. June, 785–787.
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Beer's Law: The Real Hazards. (LTE) Logan, S. R. December, 1514.
Beer's Law: The Real Hazards. (LTE) Muyskens, M. A. December, 1514–1515.
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Capstone Writing Experience in Polymer Chemistry: Writing a Proposal for an Instrument Purchase. Hunter, A. D. November, 1424.
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Experiment in the Sampling of Solids for Chemical Analysis. Guy, R. D.; Ramaley, L.; Wentzell, P. D. August, 1028–1033.
Fourier Transform Nuclear Magnetic Resonance Spectroscopy Experiment for Undergraduate and Graduate Students. Doscotch, M. A.; Evans, J. F.; Munson, E. J. August, 1008–1013.
Glass Apparatus for Gas Generation. (LTE) Arnáiz, F. J. February, 150.
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MeasureNet—Electronic Measurement Network for the Freshman Chemistry Laboratory. (NSF) Sprague, E. D.; Voorhees, R.; McKenzie, P.; Alexander, J. J.; Padolik, P. July, 859.
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Standardized Approach to Collecting and Calculating Noise Amplitude Spectra. (TICI) Sesi, N. N.; Borer, M. W.; Starn, T. K.; Hieftje, G. M. June, 788–792.
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Use of a Reliable Homemade Dilatometer To Study the Kinetics of the Radical Chain Polymerization of PMMA: An Undergraduate Polymer Chemistry Laboratory Kinetics Experiment. Martín, O.; Mendicuti, F.; Tarazona, M. P. November, 1479–1481.
Using Plastiline in the Laboratory. (CET) Arnáiz, F. J. November, 1418.
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Applying Statistics in the Undergraduate Chemistry Laboratory: Experiments with Food Dyes. Thomasson, K. A.; Lofthus-Merschman, S.; Humbert, M.; Kulevsky, N. February, 231–233.
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Bilinear Regression Analysis as a Means To Reduce Matrix Effects in Simultaneous Spectrophotometric Determination of Cr(III) and Co(II): A Quantitative Analysis Laboratory Experiment. Pandey, S.; McHale, M. E.; Coym, K. S.; Acree, W. E. July, 878–880.
Capillary Electrophoresis in the Analytical and Physical Chemistry Laboratories. (NSF) Williams, K. R. September, 1079.
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Crystallographic Structure Determination: An Experiment for Organic Analysis and Other Nontraditional Venues. Hunter, A. D. October, 1297–1299.
Decade of Instrumentation and Laboratory Improvement. (Editorial) Moore, J. W. July, 799.
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Demonstrating Electron Transfer and Nanotechnology: A Natural Dye-Sensitized Nanocrystalline Energy Converter. Smestad, G. P.; Grätzel, M. June, 752–756.
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Determination of Sugar Content in Commercial Beverages by Density: A Novel Experiment for General Chemistry Courses. Henderson, S. K.; Fenn, C. A.; Domijan, J. D. September, 1122–1123.
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Art and Science of Organic and Natural Products Synthesis. Nicolaou, K. C.; Sorensen, E. J.; Winssinger, N. October, 1225–1258.
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Precision and Accuracy. (LTE) Muranaka, K. August, 970.
Precision and Accuracy. (LTE) Rustad, D. August, 970.
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Some Linguistic Detail on Chelation. Haworth, D. T. January, 47.
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Introduction of the Scientific Method and Atomic Theory to Liberal Arts Chemistry Students. Hohman, J. R. December, 1578–1579.
Is Laboratory Based Instruction in Beginning College-Level Chemistry Worth the Effort and Expense? Hilosky, A.; Sutman, F.; Schmuckler, J. January, 100–104.
One-Semester General, Organic, and Biochemistry Course Format Linked by a Molecular Model Project. Tracy, H. J. November, 1442–1444.
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Using History To Teach Scientific Method: The Case of Argon. Giunta, C. J. October, 1322–1325.

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Capillary Electrophoresis in the Analytical and Physical Chemistry Laboratories. (NSF) Williams, K. R. September, 1079.
ChemLinks and ModularCHEM Consortia: Using Active and Context-Based Learning To Teach Students How Chemistry Is Actually Done. (NSF) Anthony, S.; Mernitz, H.; Spencer, B.; Gutwill, J.; Kegley, S. E.; Molinaro, M. March, 322–324.
Chromatographic Separation Techniques for Undergraduates. (NSF) Dahl, D. B.; Riley, J. T.; Green, T. K. October, 1209.
MeasureNet—Electronic Measurement Network for the Freshman Chemistry Laboratory. (NSF) Sprague, E. D.; Voorhees, R.; McKenzie, P.; Alexander, J. J.; Padolik, P. July, 859.
New Traditions Consortium: Shifting from a Faculty-Centered Paradigm to a Student-Centered Paradigm. (NSF) Landis, C. R.; Peace, G. E.; Scharberg, M. A.; Branz, S.; Spencer, J. N.; Ricci, R. W.; Zumdahl, S. A.; Shaw, D. June, 741–744.
Using Microwave Sample Decomposition in Undergraduate Analytical Chemistry. (NSF) Freeman, R. G.; McCurdy, D. August, 1033–1034.
Workshop Chemistry Project: Peer-Led Team-Learning. (NSF) Gosser, D. K.; Roth, V. February, 185–187.
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Determination of the Enantiomeric Purity of Commercial L-[U-^{14}C] Valine: An Experiment Utilizing Reversed-Phase Thin-Layer Chromatography and Liquid Scintillation Counting. LeFevre, J. W. October, 1287–1290.
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Dice-Shaking as an Analogy for Radioactive Decay and First-Order Kinetics. (LTE) Schultz, E. April, 413.
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Low-Level Radioactive Waste Disposal: An Exercise in Dealing with Pollution. (TPCS) Krow, G. R.; Krow, J. B. December, 1583–1584.
Modeling Nuclear Decay: A Point of Integration between Chemistry and Mathematics. (2AP) Crippen, K. J.; Curtright, R. D. November, 1434–1436.

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Simple Demonstration of How Intermolecular Forces Make DNA Helical. (TD) Bruist, M. F. January, 53–55.

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Aldehyde Derivative. Markgraf, J. H.; Choi, B. Y. February, 222–223.
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Baker's Yeast Reduction of Keto-Esters in Organic Solvents: A One-Week Research Project for Undergraduate Students. North, M. May, 630–631.
Balancing Organic Reactions. (LTE) Woolf, A. A. August, 938.
Bioorganic Chemistry: A Natural and Unnatural Science. Breslow, R. June, 705–718.
Chemical Analysis of an Endangered Conifer: Environmental Laboratory Experiments. Woosley, R. S.; Butcher, D. J. December, 1592–1594.
Chemistry from Telephone Numbers: The False Isokinetic Relationship. McBane, G. C. July, 919–922.
Cinnamaldehyde by Steam Distillation of Cinnamon. Taber, D. F.; Weiss, A. J. May, 633.
Claisen's Flask and Its Evolution. Lunelli, B. May, 638–639.
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Enzymatic Synthesis of (*S*)-(−)-γ-Methyl-γ-butyrolactone from Racemic Methyl γ-Hydroxypentanoate: A Microscale Advanced Bioorganic Chemistry Laboratory Project. (ML) Lee, M. February, 217–219.
Exploring the $C_6H_7^+$ Energy Surface: A Computational Discovery Process for Students. (TECH) Macomber, R. S. October, 1346–1350.
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Grignard-like Organic Reaction in Water. (ML) Breton, G. W.; Hughey, C. A. January, 85.
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Hybridization and Structural Properties: A Physical Organic Chemistry Experiment. Mosher, M. D.; Ojha, S. July, 888–890.
Illustrating Tetrahedral Carbons in Organic Compounds. (OPD) Elakovich, S. D. April, 479.
Inadequacies of the S_N1 Mechanism. Dale, J. November, 1482–1485.
Incorporating Organic Name Reactions and Omitting Qualitative Analysis in an Unknown Identification Experiment. Castro, C.; Karney, W. April, 472–475.
Inexpensive, Disposable Cannula Filtration Device. (CET) Bennett, B. K.; Richmond, T. G. August, 1034.
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Mechanism Templates: Lecture Aids for Effective Presentation of Mechanism in Introductory Organic Chemistry. McNelis, B. J. April, 479–481.
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Nucleophilic Addition vs. Substitution: A Puzzle for the Organic Laboratory. Silversmith, E. F. February, 221.
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π-Electron-System of Monocyclic Polyenes $C_{2n}H_{2n}$ with Alternating Single and Double Bonds. Mulder, J. J. May, 594–595.
Pechmann Reaction. (ML) Holden, M. S.; Crouch, R. D. December, 1631.
Photodimerization of Anthracene: A [$4\pi_s + 4\pi_s$] Photochemical Cycloaddition. Breton, G. W.; Vang, X. January, 81–82.
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Recycling Solvent Mixtures of Ethyl Acetate and Hexanes. Wilkinson, T. J. December, 1640.
Reduction of 2,6-Dimethylcyclohexanone with Sodium Borohydride Revisited: A Correction on the Structural Assignments of the Products, and the Discovery of a Solvent Effect. Hathaway, B. A. December, 1623–1624.
Resolution of *trans*-Cyclohexane-1,2-diamine and Determination of the Enantiopurity Using Chiral Solid-Phase HPLC Techniques and Polarimetry. Walsh, P. J.; Smith, D. K.; Castello, C. November, 1459–1462.
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Simple Molecular Orbital Treatment of the Barrier to Internal Rotation in the Ethane Molecule. Smith, D. W. July, 907–909.
Simple Streaking Device For Preparative Thin Layer Chromatography. Kim, Y. J. May, 640.
Stereowordimers—Minding Your P's and Q's. Neeland, E. G. December, 1573.
Strategy for Incorporating ^{13}C NMR into the Organic Chemistry Lecture and Laboratory Courses. Reeves, P. C.; Chaney, C. P. August, 1006–1007.
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Synthesis of Complex Natural Products as a Vehicle for Student-Centered, Problem-Based Learning. Cannon, K. J.; Krow, G. R. October, 1259–1260.
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Synthesis of NMP, a Fluoxetine (Prozac) Precursor, in the Introductory Organic Laboratory. Perrine, D. M.; Sabanayagam, N. R.; Reynolds, K. J. October, 1266.
Techniques in Organic Chemistry, Part 1: VHS Videotape; Abstract of Special Issue 20. (JCE SOFT) Browne, L. M.; Auclair, K. March, 383–384.
Techniques in Organic Chemistry, Part 2: Videotape; Abstract of Special Issue 22. (JCE SOFT) Browne, L. M.; Auclair, K. August, 1055–1056.
Thermodynamically and Kinetically Controlled Enolates: A Project for a Problem-Oriented Laboratory Course. Silveira, A.; Knopp, M. A.; Kim, J. January, 78–80.
Use of Theoretical Chemistry To Explain Baeyer–Villiger Oxidations of Methoxy Aromatic Aldehydes. Anoune, N.; Hannachi, H.; Lantéri, P.; Longeray, R.; Arnaud, C. October, 1290–1293.
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Baker's Yeast Reduction of Keto-Esters in Organic Solvents: A One-Week Research Project for Undergraduate Students. North, M. May, 630–631.
Chemical Reactions in Supercritical Carbon Dioxide. Wai, C. M.; Hunt, F.; Ji, M.; Chen, X. December, 1641–1645.
Convenient Apparatus for Small-Scale Dyeing with Indigo. (ML) Boykin, D. W. June, 769.
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Efficient Microscale Procedure for the Synthesis of Aspirin. (ML) Pandita, S.; Goyal, S. June, 770.
Fluorescence Study of Hybrid and Nonhybrid Sol-Gel Systems. Ilharco, L. M.; Martinho, J. M.; Martins, C. I. November, 1466–1469.
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Three-Cent Reusable Craig Tube. (ML) Russo, T. J. July, 880.
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Chemical Reactions in Supercritical Carbon Dioxide. Wai, C. M.; Hunt, F.; Ji, M.; Chen, X. December, 1641–1645.
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Microscale Synthesis and Electrochemistry of Low-Valent Mononuclear Complexes (η^3-C_3H_5)$Fe(CO)_3X$ (X = I, Br, Cl). (ML) Mocellin, E.; Russell, R.; Ravera, M. June, 773–775.
Synthesis and Structure–Property Relationships in (η^6-Arene)$Cr(CO)_3$ Chemistry: From Guided Experiments to Discovery Research. Hunter, A. D.; Bianconi, L. J.; DiMuzio, S. J.; Braho, D. L. July, 891–893.
Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. Ni, Y.; Manners, I.; Sheridan, J. B.; Oakley, R. T. June, 766–768.
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Influence of Distillation Conditions on the Azeotropic Composition. Wisniak, J. November, 1486–1490.
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Photodimerization of Maleic Anhydride. (LTE) Zhang, Z. December, 1515.
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Analogy To Help Students Understand Reaction Orders. (AA) Marzzacco, C. J. April, 482.
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Angular Momentum and the Two-Dimensional Free Particle. Bressanini, D.; Ponti, A. July, 916–917.
Animated Vibrational Models of Triatomic Molecules. (JCE Online) Henderson, G.; Liberatore, C. June, 779.
Applying Statistics in the Undergraduate Chemistry Laboratory: Experiments with Food Dyes. Thomasson, K. A.; Lofthus-Merschman, S.; Humbert, M.; Kulevsky, N. February, 231–233.
Assessment of a Physical Chemistry Online Activity. (CER) Towns, M. H.; Kreke, K.; Sauder, D.; Stout, R.; Long, G.; Zielinski, T. J. December, 1653–1657.
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Cometary Spectroscopy for Advanced Undergraduates. (ACL) Sorkhabi, O.; Jackson, W. M.; Daizadeh, I. November, 1472–1476.
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Crucial Role of Kinetic Energy in Interpreting Ionization Energies. Rioux, F.; DeKock, R. L. May, 537–539.
Curve-Fitting Approach to Potentiometric Titration Using Spreadsheet. (CBB) Ma, N. L.; Tsang, C. W. January, 122–123.
Deducing the Shell Model from Ionization Energies and the Use of Models in Introductory Chemistry. Gillespie, R. J.; Moog, R. S.; Spencer, J. N. May, 539–540.
Determination of Heat Capacities of Liquids with Time Resolved Thermal Lens Calorimetry: A More Accurate Procedure. Seidman, K.; Payne, A. July, 897–900.
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Flexible Surface: Molecular Studies Explain the Extraordinary Diversity of Surface Chemical Properties. Somorjai, G. A.; Rupprechter, G. February, 161–176.
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G and S: Issue 9802W for Windows. (JCE SOFT) McNaught, I. J. May, 645.
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How Does the Gibbs Free Energy Evolve in a System Undergoing Coupled Competitive Reactions? Jullien, L.; Proust, A.; Le Menn, J. February, 194–199.
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Iron(III) Thiocyanate Revisited: A Physical Chemistry Equilibrium Lab Incorporating Ionic Strength Effects. Cobb, C. L.; Love, G. A. January, 90–92.
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From Mainframes to the Web: 1998 George C. Pimentel Award, sponsored by Union Carbide Corporation. (Pimentel Award Address) Smith, S. G. September, 1080–1087.

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Chemical Analysis of an Endangered Conifer: Environmental Laboratory Experiments. Woosley, R. S.; Butcher, D. J. December, 1592–1594.
Demonstrating Electron Transfer and Nanotechnology: A Natural Dye-Sensitized Nanocrystalline Energy Converter. Smestad, G. P.; Grätzel, M. June, 752–756.
Simplified Method for the Microscale Extraction of Pigments from Spinach. (ML) Cousins, K. R.; Pierson, K. M. October, 1268–1269.

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Alginate Demonstration: Polymers, Food Science, and Ion Exchange. (TD) Waldman, A. S.; Schechinger, L.; Govindarajoo, G.; Nowick, J. S.; Pignolet, L. H. November, 1430–1431.
Capstone Writing Experience in Polymer Chemistry: Writing a Proposal for an Instrument Purchase. Hunter, A. D. November, 1424.
How To Learn and Have Fun with Poly(Vinyl Alcohol) and White Glue. de Zea Bermudez, V.; de Almeida, P. P.; Seita, J. F. November, 1410–1418.
Models for Models: An Introduction to Polymer Models Employing Simple Analogies. Tarazona, M. P.; Saiz, E. November, 1425–1429.
Polymer Chemistry in Science Museums: A Survey of Educational Resources. Collard, D. M.; McKee, S. November, 1419–1423.
Synthesis of a Ferrocene-Based Polymer via Ring-Opening Polymerization. Ni, Y.; Manners, I.; Sheridan, J. B.; Oakley, R. T. June, 766–768.
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Chemical Kinetics without Calculus. Novak, I. December, 1574–1575.
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Low-Level Radioactive Waste Disposal: An Exercise in Dealing with Pollution. (TPCS) Krow, G. R.; Krow, J. B. December, 1583–1584.
Models and Molecules—A Workshop on Stereoisomers. Baker, R. W.; George, A. V.; Harding, M. M. July, 853–855.
Organic Reactions Involving Bromine: Puzzles for the Organic Laboratory. McGowens, S. I.; Silversmith, E. F. October, 1293–1294.
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Using History To Teach Scientific Method: The Case of Argon. Giunta, C. J. October, 1322–1325.

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Chemical Etching of Group III–V Semiconductors. (POC) Kadhim, N. J.; Laurie, S. H.; Mukherjee, D. July, 840–843.
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Thermobile™: A Nitinol-Based Scientific Toy. (POC) Kauffman, G. B.; Mayo, I. March, 313–314.

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Applications of Inorganic Chemistry in Biology: An Interdisciplinary Graduate Course. (CCD) Farrell, N.; Ross, P.; Roat, R. M. June, 739–740.
Automated Protein Assay Using Flow Injection Analysis. Wolfe, C. A.; Oates, M. R.; Hage, D. S. August, 1025–1028.
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Thermodynamic Study of Azide Binding to Myoglobin. (CIB) Marcoline, A. T.; Elgren, T. E. December, 1622–1623.
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Capillary Electrophoresis in the Analytical and Physical Chemistry Laboratories. (NSF) Williams, K. R. September, 1079.
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Integrating Computers into the First-Year Chemistry Laboratory: Application of Raoult's Law to a Two-Component System. (CBB) Viswanathan, R.; Horowitz, G. September, 1124–1125.

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There Seems To Be Uncertainty about the Use of Significant Figures in Reporting Uncertainties of Results. Caballero, J. F.; Harris, D. F. August, 996.

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Conformation Interchange in Nuclear Magnetic Resonance Spectroscopy. Brown, K. C.; Tyson, R. L.; Weil, J. A. December, 1632–1635.
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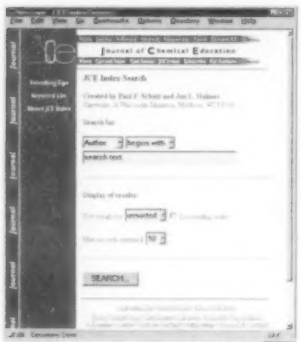

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